REP 3 V 1991

Springfield, IL 62794-9276

L1970450022 - Will County Matheson Gas Products ILD148348287 SF/HRS Volume 1 of 2

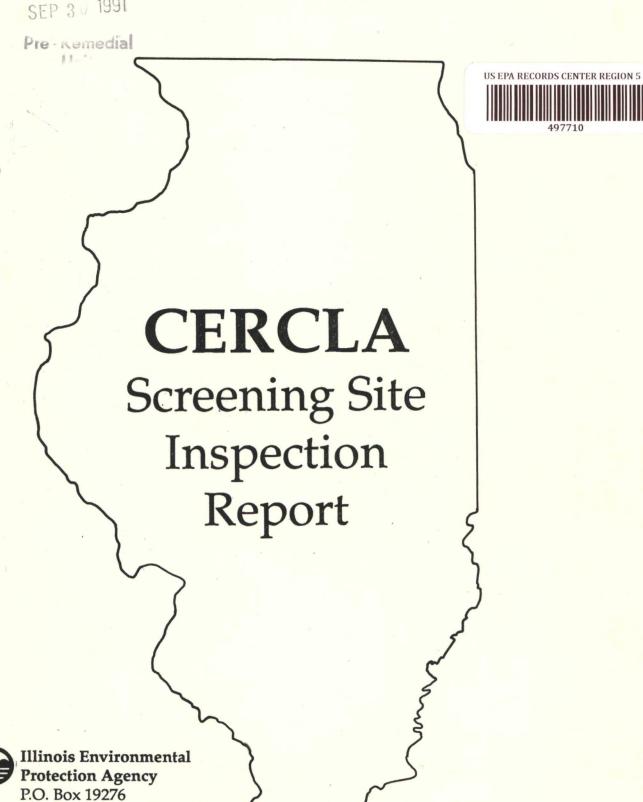


TABLE OF CONTENTS

<u>Section</u>		<u>Page</u>
1	INTRODUCTION	1-1
2	SITE BACKGROUND	2-1
•	2.1 INTRODUCTION	2-1
	2.2 SITE DESCRIPTION	2-1
	2.3 SITE HISTORY	2-1
3	SCREENING SITE INSPECTION PROCEDURES AND FIELD OBSERVATIONS	3-1
	3.1 INTRODUCTION	3-1
	3.2 RECONNAISSANCE INSPECTION	3-1
	3.3 SITE REPRESENTATIVE INTERVIEW	3-3
	3.4 SAMPLING PROCEDURES	3-3
•	3.5 GROUNDWATER SAMPLING PROCEDURES	3-4
•	3.7 SOIL SAMPLING PROCEDURES	3-5
	3.8 DECONTAMINATION PROCEDURES	3-7
.		•
. 4	ANALYTICAL RESULTS	4-1
	4.1 INTRODUCTION	4-1
	4.2 ANALYTICAL RESULTS FROM IEPA COLLECTED SAMPLES	4-1
5	DISCUSSION OF MIGRATION PATHWAYS	5 - 1
	5.1 INTRODUCTION	5-1
	5.2 GROUNDWATER	5-1
	5.3 SURFACE WATER	5-2
•	5.4 AIR	5-3
	5.5 SOIL EXPOSURE	5-4
6	BTBLTOGRAPHY	6-1

<u>Appendix</u>		<u>Page</u>
·A	SITE 4-MILE RADIUS MAP	A-1
В	SITE 15-MILE SURFACE WATER MAP	B-1
С	USEPA FORM 2070-13	C-1
а	TARGET COMPOUND LIST	D-1
E	IEPA SITE PHOTOGRAPHS	E-1
F	ISWS WELL LOGS	F-1
G	ANALYTICAL RESULTS FROM IEPA COLLECTED SAMPLES (see volume 2 of 2)	G-1
	LIST OF FIGURES	
<u>Figure</u>		<u>Page</u>
2-1	SITE LOCATION MAP	2-2
2-2	SITE AREA	2-3
2-3	SITE MAP	2-4
3-1	SITE SAMPLING LOCATION MAP	3-8
3-2	BACKGROUND GROUNDWATER SAMPLING LOCATION MAP	3-9
		· .
	LIST OF TABLES	٠.
<u>Table</u>		Page
3-1	SOIL SAMPLE DESCRIPTIONS	3-6
4-1	IEPA COLLECTED SAMPLE SUMMARY	4-3

1. INTRODUCTION

On January 24, 1991, the Pre-Remedial Unit of the Illinois
Environmental Protection Agency (IEPA) was tasked by the United States
Environmental Protection Agency (USEPA) to conduct a Comprehensive
Environmental Response, Compensation and Liability Act (CERCLA)
Screening Site Inspection (SSI) of the Matheson Gas Products facility
in Joliet, Illinois.

The site was initially placed on CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System) in November of 1988 as a result of a request for discovery action initiated by the Illinois Environmental Protection Agency.

The site received its initial CERCLA evaluation in the form of a Preliminary Assessment (PA) report that was conducted by Greg Dunn of the IEPA in September of 1989. In May of 1991, the IEPA's Pre-Remedial Unit prepared and submitted to the Region V offices of the USEPA a Screening Site Inspection work plan for the Matheson Gas Products facility. The sampling portion of the Screening Site Inspection was conducted on June 4th and 5th, 1991 when the sampling team collected three groundwater samples and nine soil/waste samples.

The purposes of a Screening Site Inspection have been stated by the USEPA in a directive outlining Pre-Remedial program strategies.

The directive states:

All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined preliminary HRS [Hazard Ranking System] score, 2) establish priorities among sites most likely to qualify for the NPL [National Priorities List], and 3) identify the most critical data requirements for the Listing SI step. A Screening SI will not have rigorous data quality objectives [DQOs]. Based on the refined

preliminary HRS score and other technical judgement factors, the site will then either be designated as NFRAP [No Further Remedial Action Planned], or carried forward as an NPL listing candidate. A Listing SI will not automatically be done on these sites, however. First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA [Resource Conservation and Recovery Act]... Sites that are designated NFRAP or deferred to other statutes are not candidates for a Listing SI.

The Listing SI will address all the data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for listing and that have not been deferred by another authority will receive a Listing SI (U.S.EPA 1988).

The Region V offices of the U.S. EPA have also requested that the Illinois Environmental Protection Agency identify sites during the Screening Site Inspection that may require removal action to remediate an immediate human health and/or environmental threat.

2. SITE BACKGROUND

2.1 INTRODUCTION

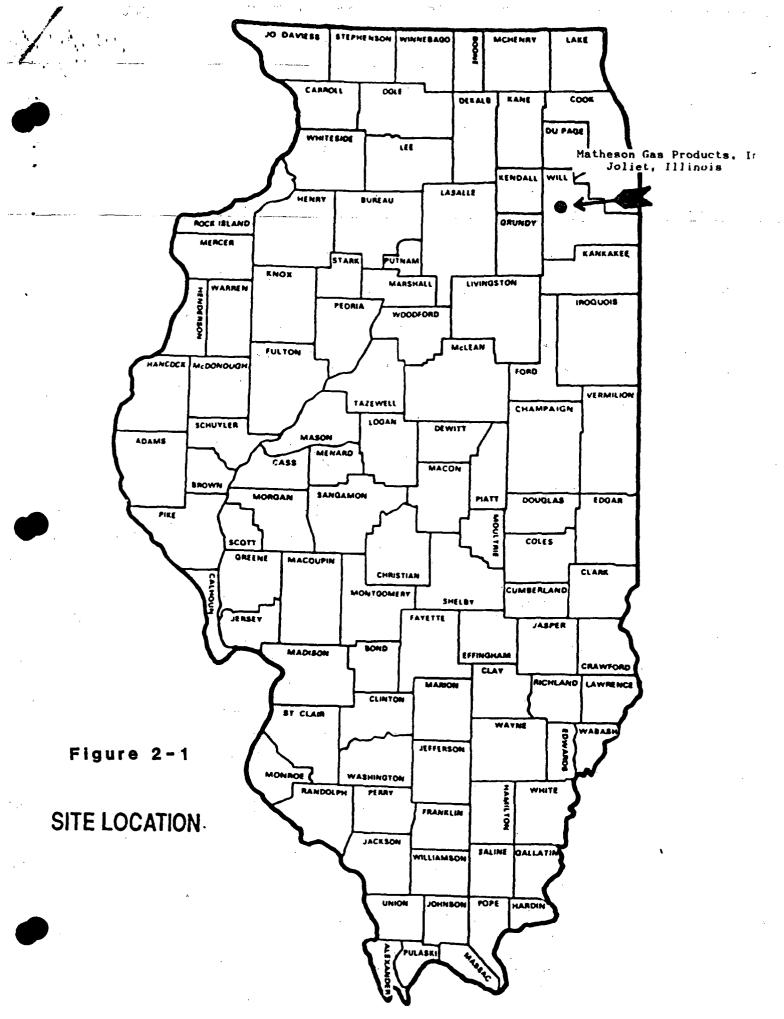
This section includes information obtained over the course of the CERCLA Screening Site Inspection investigation and previous IEPA activities involving this site.

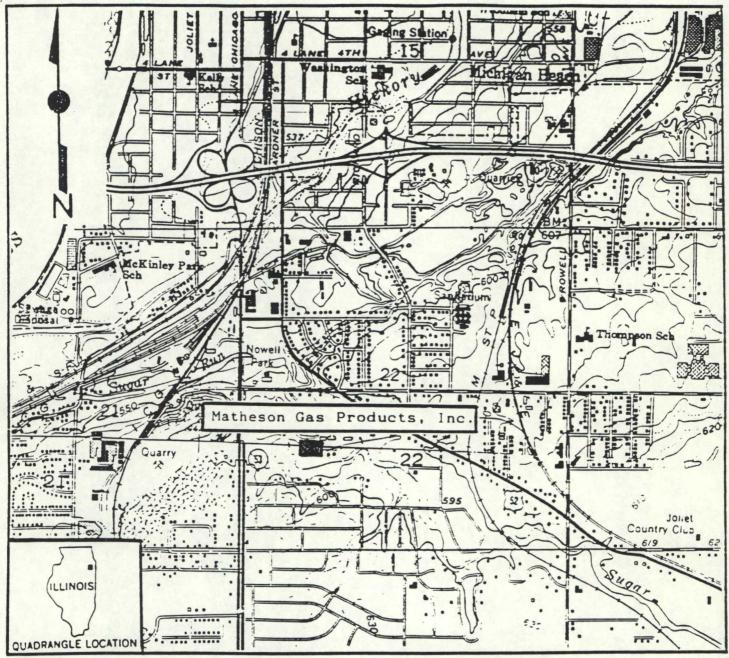
2.2 SITE DESCRIPTION

Matheson Gas Products, Inc. is a 5.44 acre site located on Manhattan Road and Richards Street (Southwest 1/4 Section 22, Township 35 North, Range 10 East) in the southern part of Joliet, Illinois. facility is an active facility that distributes high purity gases to universities and research facilities. Matheson Gas has more than 100 gases on site that can be repackaged in different size cylinders, depending on the need of the customer. The cylinders are rented out to the customers, along with any associated gas handling equipment. When the rented cylinders are returned to Matheson Gas, the cylinder can contain from 1 to 10 percent of remnant gas. The remnant gas is then vented from the cylinders through scrubber towers to be neutralized with either a caustic or acidic solution. This process generates a scrubber waste which is stored in a 5,000 gallon tank situated on the western part of the facility. The waste is analyzed for pH and shipped off-site as a non-hazardous waste. A 4-mile radius map surrounding the site is provided in Appendix A of this report.

2.3 SITE HISTORY

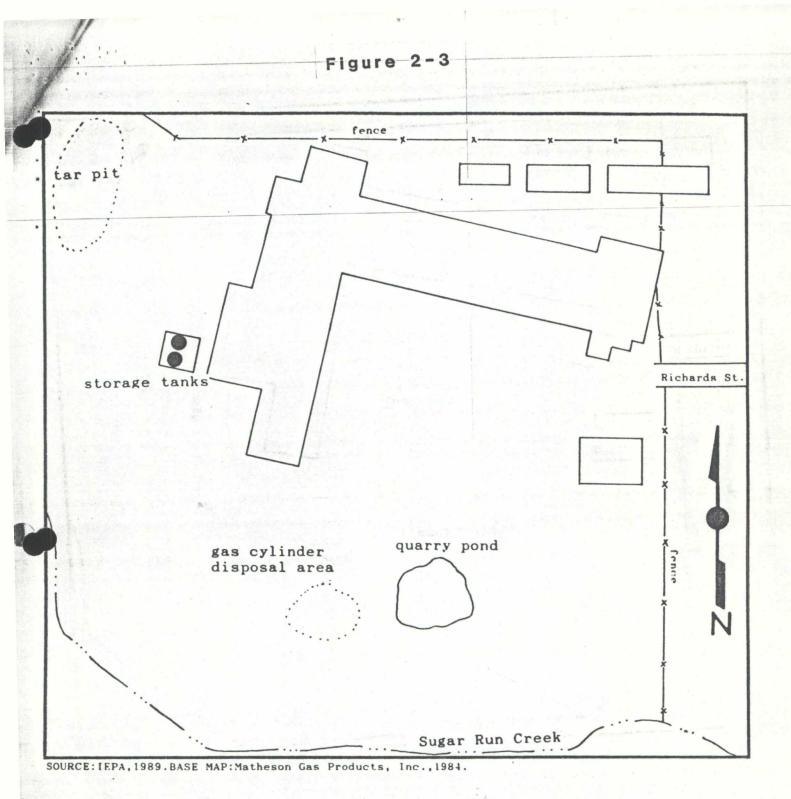
Activities began at the site in 1891 when Kirkpatrick, Howk,
Massey Stone Company used the area for their quarry operations. The





SOURCE: IEPA, 1989. BASE MAP: USGS 1973 Elwood. IL and 1973 Joliet, IL Quadrangles.

					0000	
1000	2000	3000	4000	5000	6000	7000 FEET



Approximate Scale
1" = 75 feet

SITE MAP

quarrying lasted until 1911 when the property was sold to the Joliet Oil Refining Company for use as a refinery. A Sanborn fire insurance map of the Joliet area from 1924 shows that Joliet Refining Co. was operating at the site and that several oil tanks were present and also present were several stills, two pump houses and a boiler house. The property changed owners but continued to be used as a refinery until 1946 when Matheson Gas bought the property.

While the property was being used as a oil refinery, refinery waste was deposited in at least one old quarry pit left from when the property was being used as a quarry. A pit on site measuring about 125' by 30' (unknown depth) contains viscous petroleum tar-like waste. Adjacent areas also contain viscous petroleum tar-like waste and part of these areas have been filled over by Matheson Gas in order to expand their room to operate. In the above pit in June of 1988, a dog became trapped and although eventually freed, the dog died apparently from exposure to conditions while in the pit.

During the 1960's, Matheson Gas disposed of gas cylinders on site that may have contained phosgene, chlorine, hydrogen sulfide and nitrogen dixoide. These areas where the cylinders were disposed are to the west and north of the quarry pond. Also, smaller gas cylinders could have been disposed of in the quarry pond.

Matheson Gas filed a RCRA Part A application with the USEPA on November 18, 1990 for their scrubber waste process (TO4). However, the facility amended their Part A in 1984 to close their hazardous waste storage area (SO2) in order to be classified as a generator only. This unit was certified closed on September 17, 1985, by the Illinois EPA. The IEPA concurred on April 27, 1989 with the USEPA and Matheson Gas

Matheson Gas Part A on that date. The facility also has three other permits that have been issued by the IEPA. The first permit is issued by the IEPA Division of Air Pollution Control for pollution control equipment consisting of a scrubber system and dispatching oven (permit #197809AAX). The IEPA Division of Water Pollution Control issued an NPDES permit (#IL0062a618) for non-contact cooling water that is discharged to the on-site quarry pond. The Division of Land Pollution Control approved a permit (1981-59-OP) on January 5, 1984 for Matheson Gas to operate two 5,000 gallon tanks for storage of scrubber wastes.

3. SCREENING SITE INSPECTION PROCEDURES AND FIELD OBSERVATIONS

3.1 INTRODUCTION

This section outlines procedures utilized and observations made during the CERCLA Screening Site Inspection conducted at the Matheson Gas Products, Inc., facility. Specific portions of this section contain information pertaining to the reconnaissance inspection, site representative interview and field sampling procedures. The Screening Site Inspection for the Matheson Gas Products facility was conducted in accordance with the site inspection work plan which was developed and submitted to the U.S.EPA Region V offices prior to the initiation of field activities.

The U.S.EPA Potential Hazardous Waste Site Inspection Report (Form 2070-13) for Matheson Gas Products is located in Appendix D of this report.

3.2 SITE RECONNAISSANCE

on May 2, 1991, Mr. Alan Kirwan of the Illinois Environmental Protection Agency conducted the initial CERCLA Screening Site Inspection reconnaissance inspection of the Matheson Gas Products facility. Mr. Stuart Miller and Mr. Casey Von Swol of Matheson Gas Products accompanied Mr. Kirwan on the inspection. The reconnaissance inspection included a visual inspection of the facility to delineate the extent of their activities, identify potential sampling locations and identify potential sampling requirements. During the reconnaissance inspection, it was determined that level D personal protection equipment could be worn during the sampling activities

unless air monitoring equipment detected any concentrations over background.

Site reconnaissance observations showed that Matheson Gas is located on Richards Street about 1/4 of a mile west of the intersection of Richards Street and Manhattan Road. The area immediately surrounding Matheson Gas is mostly wooded. To the immediate east and northeast of Matheson Gas are industrialized areas. Immediately to the south, west and north of Matheson Gas are wooded areas. Sugar Run creek actually flows through part of Matheson Gas property on the wooded south side of the property. Sugar run creek enters the property from the east and flows west beyond Mathesons property where it then turns and flows north to the Desplaines river approximately one mile from where it enters Matheson property. Beyond the immediate wooded areas on the south, west and north side of the site are residential areas.

An area of the parking lot south of the facilities building's showed where a petroleum, tar-like substance was making its way up to the surface of the parking lot from below. This area of the site had been filled over and elevated to create more space for manufacturing. More to the south beyond the filled area are areas where the petroleum tar-like substance was disposed of while the site area was used as a refinery. There is at least one old quarry pit in this area that contains the tar-like waste. This pit and adjacent areas where the tar was disposed were viewed during the site reconnaissance. An old creek bed pathway from the above referenced pit was followed to where it runs into the present day path of Sugar Run creek. Quite possibly the former pathway of Sugar Run creek ran through the quarried area

where the tar-like substance is disposed of. Mr. Miller and Mr. Von Swol informed this author that the property boundaries of Matheson Gas end at a area in the above referenced pit and that two other property owners share common boundaries with Matheson Gas within the area of the pit.

3.3 SITE REPRESENTATIVE INTERVIEW

On June 4, 1991, a site representative interview was held at Matheson Gas. Representing the Illinois EPA were Alan Kirwan, Gregg Dunn, Judy Triller and Hank Konzelman. Representing Matheson Gas were plant manager Mr. Casey Von Swol and attorney Mr. David Rifkind. Mr. Rifkind is employed by the law firm of Morgan, Lewis and Bockius in Philadelphia, Pennsylvania. Mr. Rifkind stated that he was present representing Matheson Gas and that he was there for liability and safety purposes. Mr. Von Swol and Mr. Rifkind were informed of the Screening Site Inspection objectives and sampling points. Safety considerations during sampling activities were also discussed. Mr. Von Swol accompanied the IEPA sampling team during the inspection and provided glass jars with which the Illinois EPA sampling team split on-site samples with Matheson Gas. Samples were split at the request of Matheson Gas.

3.4 SAMPLIING PROCEDURES

The field activities portion of the CERCLA Screening Site

Inspection included the collection of three groundwater and nine

soil/waste samples by the Illinois Environmental Protection Agency

U.S.EPA Target Compound List compounds were present at the site or at potential receptors of concern. The Target Compound List and corresponding program established detection limits are provided in Appendix D of this report. (Refer to the analytical data in Appendix I for detection limits associated with each sample point.

3.5 GROUNDWATER SAMPLING PROCEDURES

On June 4, 1991, the Matheson Gas on-site industrial/washroom well, a public well and a private well were sampled by Illinois EPA personnel. The wells were purged for fifteen minutes, with temperature, pH and specific conductivity readings taken during purging and prior to sampling in order to determine that representative groundwater was being sampled. The wells were sampled at points before the water entered any conditioners or treatment, with the water transferred dirrectly into the appropriate sampling containers provided by the Illinois EPA's Contract Lab Program. Preservatives were added to the appropriate inorganic sample containers after each container was filled.

The in-well pump at the Matheson Gas industrial/washroom on-site well was allowed to operate for 15 minutes. The well water flow during the 15 minute purging process was 3.6 gallons per minute. The well was sampled at 10:15 AM. Well water sample from the on-site well at Matheson Gas was split with Matheson Gas. The Matheson Gas well is 106 feet deep and is cased at 73 feet. A residence private well located on Old Elm Road approximately 400 feet south of the Matheson Gas bottling building was sampled at 11:15AM. Flow during the purging was about

three gallons per minute. The private well is approximately 152 feet deep and is cased at 80 feet. The Clearview subdivision public well no. 2 was sampled at 12:40 PM. The well is located about 1/4 mile north of the site. The flow during the purging was about one and one-half gallons per minute. The subdivision well had been running most of the morning before sampling. The subdivision well is approximately 220 feet deep and is cased at 60 feet.

3.6 SOIL SAMPLING PROCEDURES

On June 4, 1991, Illinois EPA personnel collected soil/waste samples X103 through X107. On June 5, 1991, Illinois EPA personnel collected soil/waste samples X101, X102, X108 and X109. The purpose of the sampling was to compare on-site samples to downgradient samples and a background sample. Table 3-1 on the following page describes each of the samples with their location, depth and physical appearance noted. The samples were collected with stainless steel spoons. The sample material was transferred directly into the sample jars from the sampling spoons. Before the spoons were used at the site, each had been decontaminated at the Illinois EPA warehouse.

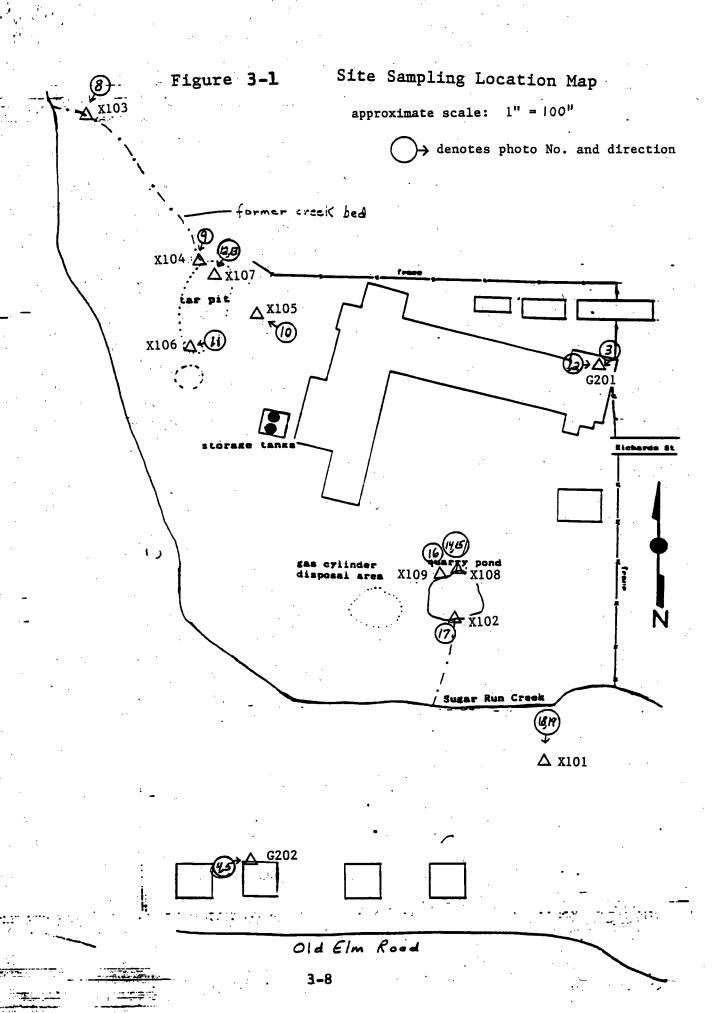
The soil/waste sample containers and the groundwater sample containers were packaged and sealed in accordance with previously documented Pre-Remedial Program procedures. The Illinois EPA samples were analyzed for the Target Compound List be Illinois EPA laboratories. Photographs of the Screening Site Inspection sampling activities are provided in Appendix E of this report.

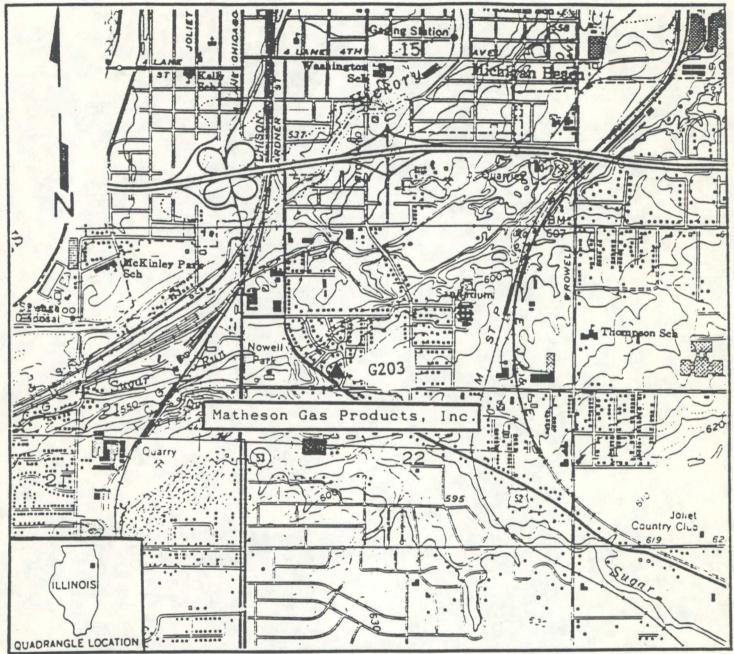
Table 3-1

Sample	<u>Depth</u>	<u>Appearance</u>	<u>Location</u>
X101	0-6"	black soil	Background sample taken about 300' south of bottling building across creek
X102	0-6"	dark, wet sand and mud	Southern edge of quarry pond at overflow discharge to Sugar Run creek
X103	0-6#	soil with black tar-like material	Along former creek bed about 35' south from confluence of Sugar Run creek
X104	0-6"	dark brown soil with viscous tar material	At north edge of tar pit one foot north of fence
X105	0-6"	black, viscous tar-like material	About 80' east of bottling building and 60' south of north fence line in lot area
X106	0-6"	black, viscous tar-like material	At southern end of fenced tar pit about 10' north inside tar pit
X107	0-6"	black, viscous tar-like material	At north end of fenced tar pit about 18' south inside tar pit
X108	0-6"	<pre>brown/black mud with red discoloration</pre>	At north edge of quarry pond about 30' east of NPDES discharge outfall pipe
X109	0-6"	black/green mud	About 16' south of NPDES discharge outfall to quarry pond along discharge route

3.8 DECONTAMINATION PROCEDURES

Standard Illinois Environmental Protection Agency decontamination procedures were followed prior to the collection of all samples. The procedured included the scrubbing of all equipment with a non-foaming Trisodium Phosphate solution, rinsing with hot tap water again and a final rinse with distilled water. All equipment is air dried, then wrapped and stored in heavy duty aluminum foil for transport to the field. Field decontamination procedures include all of the above except the hot tap water rinse.





SOURCE: IEPA, 1989. BASE MAP: USGS 1973 Elwood. IL and 1973 Joliet. IL Quadrangles.

1000	2000	3000	4000	5000	6000	7000 FEET
1000	2000	2000	1000			

4. ANALYTICAL RESULTS

4.1 INTRODUCTION

This section includes a summary of the analytical results of samples collected during the Screening Site Inspection conducted at the Matheson Gas Products facility in Joliet, Illinois. Table 4-1 summarizes sample results collected by site inspection personnel.

Some samples contained unknown organic compounds with corresponding estimated concentrations. Table 4-1 does not include these unknown organic compounds. Complete laboratory analytical data, including unknown compounds and substances that were analyzed for but not detected, is provided for in Appendix G (volume 2 of 2) of this report.

4.2 ANALYTICAL RESULTS FROM IEPA COLLECTED SAMPLES

Chemical analysis of the three groundwater samples collected by the site inspection personnel indicated that common inorganic groundwater constituents and metals were contained in the samples.

Several of the common inorganic constituents that are indicators of "hardness" of water are at relatively high concentrations in the three samples collected. The high concentrations of these "hardness" indicators in these three samples are characteristic of the dolomitic aquifer that they contact.

The on-site groundwater sample (G201) analysis found a unknown semi-volatile organic compound at an estimated concentration of 1.8 parts per billion.

Analysis of the nine soil/waste samples collected during the inspection revealed the following substances: volatiles, semi-volatiles, pesticides, metals, suspected laboratory artifacts and

common inorganic soil constituents.

Analysis of samples X106 and X107 from the old quarry pit filled in with tar-like waste shows that the pit contains the highest concentrations of volatiles, semi-volatiles and lead. Sample X106 also contained the pesticide 4,4-DDT. Sample point X105 where tar-like waste is oozing upward through fill material also shows high concentrations of volatiles, semi-volatiles and lead. Sample point X104, just outside the pit where a dry former creek bed exists, showed relatively high concentrations of both known and unknown semi-volatiles and had a high lead content. Compared to the background sample, the above referenced samples and other samples from the site show a significant increase in concentrations of volatiles, semi-volatiles and lead.

TABLE 4-1
IEPA COLLECTED SAMPLE SUMMARY

Matheson	Gas	Products
TT D1 / 23/5	2217	

Sampling Point Sample Date	G201 6/4/91	G202 6/4/91	G203 6/4/91	X101 6/5/91	X102 6/5/91	X103 6/4/91	X104 6/4/91	X105 6/4/91	X106 6/4/91	X107 6/4/91	X108 6/5/91	X109 6/5/91	Trip Blank
PARAMETER								,					
Volatiles (parts per billion)	•						•						
Acetone				'	16.0	10.0J	140.0	1500.0	490.0J		170.0	80.0	130.0J
Methylene Chloride				, 			4.ÓJ		260.0J	-,-	6.0J		
Benzene				·					2800.0			4.0J	
Ethylbenzene								2200.0	1400.0	3200.0		10.0	
Toluene		 `							1900.0	3500.0		12.0	
Xylene (total)						· 		11000.0	10000.0	14000.0		20.0	
Chloroform								·	·	· ·		8.0	
Carbon Disulfide							·					4.0J	
l,-l Dichloroethane								 -		'		4.0J	·
1,1,2,2-Tetrachloroethane								2200.0					
												•	
Semivolatiles (parts per billion)													
Chrysene			'				5100.0J		44000.0				
Napthalene								14000.0	28000.0 J	13000.0J			:
Flourene	<u></u>								27000.0J	6300.0J			
Phenanthrene								48000.0	110000.0	50000.0J			
2-Methylnapthalene								51000.0	140000.0J	39000.0J			- <u>-</u>
Hexachlorobenzene										· 		210.OJ	
Pheno1						. 		6800.0J		24000.0J		420.0J	
Dimethyl Phthalate								 .				390.0J 1700.0J	
Di-n-Butylphthalate												420.0J	
Butylbenzylphthalate Bis (2-ethylhexyl) Phthalate							8100.0J					420.03	
Bis (2-ethylhexyl) Inchalate							0100.03						
Pesticides (parts per billion)										•			
4,4'-DDT							·		270.0				
Aroclor-1254							·					2800.C	
Aroclor-1260												3200.0	

NOTE: The J qualifier indicates an estimated value

Matheson	Gas	Products
ILD148348	3287	

Sample Point	G201	G202	G203	X101	X102	X103	X104	X105	X106	X107	X108	X109
Sample Date	6/4/91	6/4/91	6/4/91	6/5/91	6/5/91	6/4/91	6/4/91	6/4/91	6/4/91	6/4/91	6/5/91	6/5/91
<u>PARAMETER</u>					4.				, . ` <u>.</u> `.			
Inorganics											(V)	
Aluminum	. <u></u>			13200.0	4170.0	14700.0	20400.0	2220.0	2700.0	453.0	7990.0	8520.0
Antimony	49.5B	:		9.6B	73.9	34.8	20400.0	36.3	2700.0	455.0	63.5	58.6
Arsenic			<u> </u>	7.9	5.1	11.0	9.4	1.4B	 3 2B	0.7B	27.7	8.5
Barium	73.4B	61.0B	72.2B	112.0	21.1	88.9	111.0	21.6B	4.41	7.2B	3 82.4	68.9
Beryllium	75.40	01.05	72.20	112.0	ZI.1		111.0	21.00	JQ.2B	/ • ZD	302.4	00.9
Cadmium				1.3B			212.0				- 44 <u>TZ</u> ** - 4	
Calcium	148000.0	174000 0	157000.0	24300.0	103000.0	59700.0	18400.0	50200.0	4260.0	700.0B	120000.0	99200.0
Chromium	9.5B	7.2B	29.0B		11.5	24.3	68.0	6.5	4200.0	10.1	115.9	75.0
Cobalt	, J.J.	7.20		5.7B		3.1B	8.8B			10.1	3 <u>-1</u>	1.0B
Copper			<u> </u>	26.1	9.8	25.4	81.0	7.9	8.1		10.5	192.0
Iron	2670.0	1550.0	1110.0	21300.0	12400.0	24500.0	41500.0	4440.0	2360.0	1220.0	48600.0	35400.0
Lead	2070.0	2.9B	1110.0	26.5	11.0	30.4	318.0	95.0	197.0		16.8	378.0
Magnesium	72200.0	104000.0	70400.0	12000.0	60700.0	35100.0	8560.0	19600.0	839.0B		55700.0	45500.0
Manganese	72.8	81.3	61.1	569.0	292.0	597.0	678.0	57.4		9.5	920.0	2320.0
Mercury	72.0			0.12		0.04	0.53	J7.4	50.5		. ,20.0	2320.0
Nickel	——		15.8B	20.8		25.9	44.8	3.3B	· ·. , <u>——</u>	7.3B	14.3	<u> 2</u>
Potassium	4900.0B	5350.0	5090.0	2310.0	1450.0B	2650.0	2600.0	953.0B	825.0B	309.0B	2950.0	2760.0
Selenium		28.0	J0J0.0.	2510.0	0.4B	0.5B		0.4B	0.8B	307.05		
Silver					3.5	2.1	о́ . 7В	1.9B		. <u></u>	4.0	3.5
Sodium	73100.0	179000.0	83500.0	102.0B	188.0B	101.0B	258.0B	253.0B	683.0	281.0B		686.0B
Thallium	75100.0							1.0B		2.0B	2 -	
Vanadium	29.1B	²² 73.2	34.1B	26.1	11.0B	29.5	40.3	4.7B	7.4B	1.4B	18.3	19.9
Zinc	71.6	19.5B		100.0	49.5	116.0	321.0	27.2	13.3	4.4B	50.6	191.0
Cyanide								4.8				114.0
Sulfide			·				<u>- /</u>					-
Sulfate	162000.0	267000.0	164000.0				· 	<u></u>				
	(ppb)	(ppb)	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)

NOTE: The B qualifier indicates that the reported value is less than the CRDL, but greater than the IDL.

5. DISCUSSION OF MIGRATION PATHWAYS

5.1 IINTRODUCTION

This section includes data and information that may be useful in analyzing Matheson Gas Products site impact on the four migration pathways identified in CERCLA's Hazard Ranking System (HRS). The migration pathways which will be analyzed in this section include groundwater, surface water, air and soil exposure.

5.2 GROUNDWATER

Groundwater samples were collected from the Matheson Gas on-site industrial/washroom well, the Clearview subdivision public well no.2 and a residence private well south of the site.

The geology of the area consists of a loam type material from the surface to three feet deep, with a clay layer from three to twelve feet deep. The Silurian Dolomite (Niagaran and Alexandrian Series) underlies the clay down to depths of 240 feet. This dolomite is part of the geohydrologic system present throughout northeastern Illinois that is referred to as the shallow dolomite aquifer system. This dolomite is underlain by the Maquoketa Group (Ordovician age) which consists primarily of nonwater-bearing shales that separate the Silurian aquifer from deeper water-bearing units. These shales generally are between 100 to 250 feet thick and occur from approximately 50 to 500 feet in depth. Below the Maquouketa lies the thick sequence of hydrologically connected rocks that are referred to as the Cambrian Ordovician aquifer system. This aquifer system is made

up of, in downward order, the Galena and Platteville Dolomite Groups, Glenwood-St. Peter Sandstone, Prairie du Chien Group - Dolomitic Sandstone, Eminence-Potosi Dolomite, Franconia Formation (dolomite, sandstone and shale) and the Ironton-Galesville Sandstone.

Private and public wells in the area of Matheson Gas Products (other than the Joliet city wells) obtain water from the Silurian Dolomite aquifer (see Appendix F for area well logs). The Joliet wells obtain water from the Cambrian-Ordovician aquifer at depths between 1400 feet and 1700 feet. Approximately 20 public water supply systems and 674 private wells tap the Silurian Dolomite aquifer and serve 7,169 residents within four miles of the site. Private wells range from 50-340 feet in depth. Public wells range from 50-360 feet in depth. This total does not include industrial and commercial wells that may supply water to their employees. The closest private well is on-site and can be used for drinking by the employees at the facility. The closest public supply well is less than 1/4 mile north in the Clearview subdivision. No wellhead protection areas (as designated by Section 1428 of the Safe Drinking Water Act) exist near the site.

5.3 SURFACE WATER

No surface water samples were collected during the June 4th and 5th, 1991 Screening Site Inspection of Matheson Gas Products. Surface water runoff probably flows south or east from the facility where it would enter a wooded area and then flow into Sugar Run creek. Sugar Run creek flows to the west and then to the north for about one mile from the site where it enters the Desplaines river. Surface water use of the Desplaines river is recreational only, with no surface water intakes within fifteen miles downstream of the site. The site is

within a 100 year floodplain.

Sensitive environments within a fifteen mile downstream distance of the site include a state wildlife refuge, state designated natural areas and habitat known to be used by state designated or threatened species. Desplaines Conservation Area, a state wildlife refuge, is located approximately 13 miles downstream of Matheson Gas. A state endangered bird, the Pied-billed Grebe, has been reported at the Desplaines Conservation Area. Two state listed natural areas, the Schweizer West Geological Area and the Rockdale Geological Area are located approximately 14 miles downstream of the site. A state endangered plant, Corn Salad (Valerianella chenopodifolia), occurs approximately 14 miles downstream of the site.

5.4 AIR

No documented releases to air were observed during the CERCLA Screening Site Inspection. A photo-ionization detector (HNU) with an 11.7 eV lamp was used to determine the presence of certain air-borne contaminants. No significant readings over background levels were observed.

The potential for windblown particulates to carry contaminants off-site is possible since contaminants were found in the top six inches of soil on-site. The nearest regularly occupied building is the facility office. The approximate number of individuals potentially exposed to particulates include:

<u>Distance</u>	<u>Population</u>
On a source	24
Greater than 0 to 1/4 mile	306
Greater than 1/4 to 1/2 mile	1224
Greater than 1/2 to 1 mile	4590
Greater than 1 to 2 miles	16830
Greater than 2 to 3 miles	29070
Greater than 3 to 4 miles	26010

The above populations were taken from the 1990 census for Will County and a 3.06 people per household average for Will County as established by the U.S. Census Bureau.

There are no sensitive environments within 1/2 mile of Matheson Gas Products.

5.5 SOIL EXPOSURE

Soil samples, and waste samples taken from the old quarry pit, during the Screening Site Inspection indicate an observed release to the soil exposure pathway by contaminants that are attributable to the site. The compounds found three times background concentrations or above detection limits, in the top six inches, include benzene, ethylbenzene, toluene, xylene, napthalene, chrysene, flourene and phenanthrene. The heavy metal lead was also found at three times background concentrations.

The site is fenced on the north and east side of the property.

Access to the site is relatively easy through wooded areas on the west and south sides. The old quarry pit that contains refinery waste has been fenced by Matheson Gas with a wooden fence such as the type used

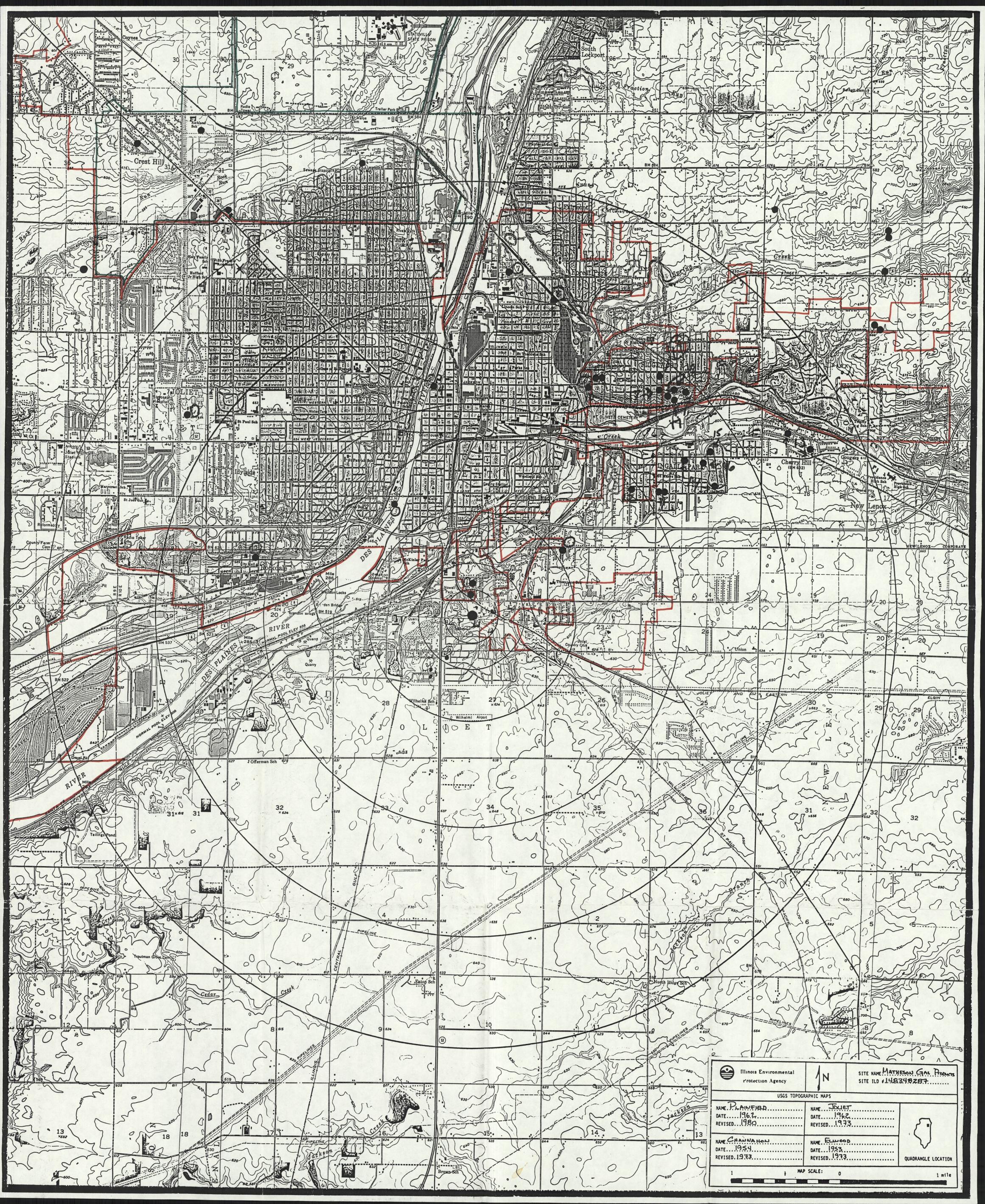
along highways to prevent snow from blowing onto roads. Reportedly, children have occasionally played in the wooded area on the west and south side of the property.

6. BIBLIOGRAPHY

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- Illinois Department of Energy and Natural Resources, State Water Survey, water well records of wells near Matheson Gas Products, Will County, T.35N., R.10E.
- Illinois Environmental Protection Agency 1989 CERCLA Potential Hazardous Waste Site Preliminary Assessment of Matheson Gas Products, prepared by Greg Dunn, Springfield, Il.
- Illinois Environmental Protection Agency 1990 CERCLA Potential Hazardous Waste Site Screening Site Inspection of American Cyanamid Company, prepared by Ken Corkill, Springfield, Il.
- U.S. Census Bureau, 1990, Average persons per household in Will County, Illinois.
- U.S.EPA, Office of Solid Waste and Emergency Response, February 12, 1988, Pre-Remedial Strategy for Implementing SARA, Directive number 9345.2-01, Washington, D.C.
- USGS, 1973, Channahan, Il. Quadrangle, 7.5 Minute Series.
- USGS, 1973, Elwood, Il. Quadrangle, 7.5 Minute Series.
- USGS, 1973, Joliet, Il. Quadrangle, 7.5 Minute Series.
- USGS, 1980, Plainfield, Il. Quadrangle, 7.5 Minute Series.

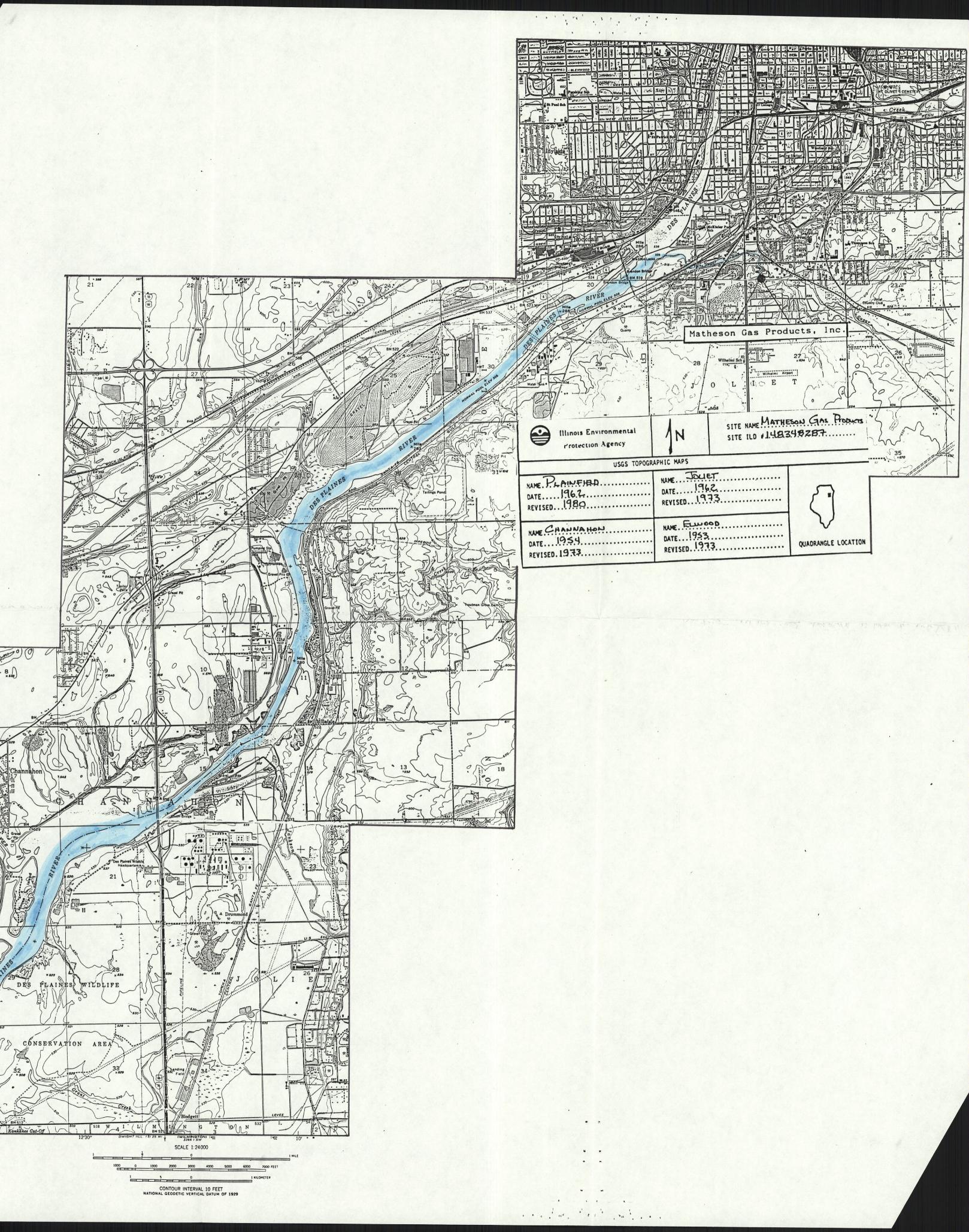
APPENDIX A

SITE 4-MILE RADIUS MAP



APPENDIX B

SITE 15-MILE SURFACE WATER MAP



APPENDIX C
USEPA FORM 2070-13



Site Inspection Report

SEPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENT	IFICATION
01 STATE	02 SITE NUMBER
ILL	02 SITE NUMBER \$\int 148348 \(\frac{1}{2}87\)

PART 1 - SITE	LOCATION AND INSPECTION INFORMATI	ON III	0148348287
II. SITE NAME AND LOCATION	to the same of the	en en e	
01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIF	^	
Matheson Gas Produ	cts Manhattan Rd.	and Kichard	s Street
Joliet	II 60434	Will	07COUNTY 08 CONG CODE DIST 197 04
09 COORDINATES 41 30 00 0 0 88 04 3 5 .3	O TYPE OF OWNERSHIP (Check one) MA. PRIVATE DB. FEDERAL DG F. OTHER	C. STATE D. COUNTY	□ E. MUNICIPAL N
III. INSPECTION INFORMATION 01 DATE OF INSPECTION 02 SITE STATUS	03 YEARS OF OPERATION		
06 45, 91 MONTH DAY YEAR DESTREMENT MONTH DAY YEAR DESTREMENT DESTREMENT MACTIVE □ INACTIVE	1946 Present BEGINNING YEAR ENDING YEAR	UNKNOWN	:
04 AGENCY PERFORMING INSPECTION (Check all that apply)		:	
□ A. EPA □ B. EPA CONTRACTOR	me of (im) □ C. MUNICIPAL □ D. MUNI	CIPAL CONTRACTOR	(Name of firm)
	me of firm)	(Specify)	
Alan Kirwan	Environmental Protection Spec.	07 ORGANIZATION I EPA	08 TELEPHONE NO. 309) 693-5462
OS OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Grea Dunn		iş	(217)782-6760
Judy Triller	u	11	() "
Hauk Konzelman	• •	4	()
		,	()
			()
13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE 15ADDRESS		16 TELEPHONE NO
Casey Von Swol	Plant Manager	· · · · · · · · · · · · · · · · · · ·	()
Pavid Rifkind	legal counsel Philadelphia,	pa 19103	2157 963-5017
			(·)
			()
		-	()
			()
		··	
17 ACCESS GAINED BY 18 TIME OF INSPECTION (Check one)	19 WEATHER CONDITIONS		
Ø PERMISSION 9:30 Am □ WARRANT	sunny, temp. 75° F	, 10 mph wir	nds .
IV. INFORMATION AVAILABLE FROM	02 OF (Agency/Organization)		03 TELEPHONE NO.
	0 1		815)727-4848
C 4 Sey Von Swal	1 In atheson Gas Production To agency Top Organization To	7 TELEPHONE NO.	OB DATE
Alan Kirwan	T	309)693-5462	09 ,24, 91 MONTH DAY YEAR
EPA FORM 2070-13 (7-81)	and the second of the second o		-+

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT BART 2 WASTE INFORMATION

I. IDENTIFICATION

101 STATE 02 SITE NUMBER

TL 0148348287

C A SOUD	•	TONS	of waste quentries and pendenti	☐ C. RADIOA		UBLE G I. HIGHLY CTIOUS G J. EXPLOS MMABLE G K. REACT TABLE G L. INCOM	VOLATILE SIVE IVE PATIBLE
III. WASTE T	YPE					-	
CATEGORY	SUBSTANCE	NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
ŞLU	SLUDGE					•	
OLW	OILY WASTE		UNKNOWN				
SOL	SOLVENTS		- Old Kild Opeld			· 	
PSD	PESTICIDES		1.411/				
			UNKNOWN				
occ	OTHER ORGANIC C		<u> </u>			-	
10C	INORGANIC CHEMIC	CALS			·		
ACD	ACIDS		<u> </u>				
BAS	BASES		<u> </u>		<u> </u>	<u> </u>	
MES	HEAVY METALS		UNKNOWN				
IV. HAZARD	OUS SUBSTANCES (See A	ppendix for most frequen	ntly cited CAS Numbers)				-
01 CATEGORY	02 SUBSTANCE	NAME	03 CAS NUMBER	04 STORAGE/DISF	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	7.		1	2°. , +	. 64	1	
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V. FEEDSTO	CKS (See Appendix for CAS Numb	bers)		,			
CATEGORY	01 FEEDSTOO	CK NAME	02 CAS NUMBER	CATEGORY	01 FEEDS	FOCK NAME	02 CAS NUMBER
FDS.				FDS			
FDS				FDS			· ···
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FDS				FDS			<u>.</u>
	S OF INFORMATION ICH		<u></u>	<u> </u>			*
Filinos	s EPA files						

SEPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION 01 STATE 02 SITE NUMBER TL 0148348287

II. HAZARDOUS CONDITIONS AND INCIDENTS	A CONTRACT OF THE CONTRACT OF
01 № A. GROUNDWATER CONTAMINATION 02 □ OBSERVED (DATE: 04 NARRATIVE DESCRIPTION) SE POTENTIAL 🗆 ALLEGED
A potential for groundwater contamination of t	he relatively shallow Silverian
"dolomite aprifer exists due to the fact that oil refin	ery waste was disposed of in an
old quarry orea, and the burial disposal of used gas cylin	
01 B B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION	
SST sample analysis shows off-source contamination le	ading from disposal area to Sugar
Run creek via a former creek bed. Sugar Run creek emp	ties into Desplaines River. There are
no water intakes within 15 miles downstream of the facility	· · · · · · · · · · · · · · · · · · ·
01 S C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED: 78, 014 04 NARRATIVE DESCRIPTION) POTENTIAL ☐ ALLEGED
potential exists for contaminated particulate matter	to become airborne
01 D. FIRE/EXPLOSIVE CONDITIONS 02 DBSERVED (DATE.) © POTENTIAL © ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION	
hone documented or observed	
WOULE GOCOMERNON ON OBJETNED	
01 ☐ E. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION) X POTENTIAL - ALLEGED
Potential for contact exists because oil refinery	disposal areas are not completely
fenced.	- La callelaid
	•
01 ▼ F. CONTAMINATION OF SOIL 02 □ OBSERVED (DATE: 6-	
03 AREA POTENTIALLY AFFECTED: UN Known 04 NARRATIVE DESCRIPTION	4-91 DE POTENTIAL SE ALLEGED
03 AREA POTENTIALLY AFFECTED: <u>UN Known</u> 04 NARRATIVE DESCRIPTION SSI sample results show off-source contamination	4-91 DE POTENTIAL SE ALLEGED
03 AREA POTENTIALLY AFFECTED: UN Known 04 NARRATIVE DESCRIPTION	4-91 DE POTENTIAL SE ALLEGED
03 AREA POTENTIALLY AFFECTED: <u>UN Known</u> 04 NARRATIVE DESCRIPTION SSI sample results show off-source contamination attributable to old quarry pits	4-91 DE POTENTIAL SE ALLEGED
03 AREA POTENTIALLY AFFECTED: UN Known SSI sample results show off-source contamination attributable to old quarry pits 01 BG. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 7,169 04 NARRATIVE DESCRIPTION	of soil by compounds
03 AREA POTENTIALLY AFFECTED: UN Known SSI sample results show off-source contamination attributable to old quarry pits 01 BG. DRINKING WATER CONTAMINATION 7,169 02 DBSERVED (DATE: 03 POPULATION POTENTIALLY AFFECTED: 7,169 04 NARRATIVE DESCRIPTION See "A." above - SSI sample results show a unknown of the contamination of	of sell by compounds
03 AREA POTENTIALLY AFFECTED: UN Known SSI sample results show off-source contamination attributable to old quarry pits 01 BG. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 7,169 04 NARRATIVE DESCRIPTION	of soil by compounds
03 AREA POTENTIALLY AFFECTED: UN Known SSI sample results show off-source contamination attributable to old quarry pits 01 BG. DRINKING WATER CONTAMINATION 7,169 02 DBSERVED (DATE: 03 POPULATION POTENTIALLY AFFECTED: 7,169 04 NARRATIVE DESCRIPTION See "A." above - SSI sample results show a unknown of the contamination of	of soil by compounds
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03 AREA POTENTIALLY AFFECTED: UN Known SSI sample results show off-source contamination attributable to old gramy pits 01 BG. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 7,169 04 NARRATIVE DESCRIPTION See "A." above - SSI sample results show a unknownly of a concentration of 1.8 ppb (estimated)	of sell by compounds Description of selleged of sell by compounds Description of selleged of selleged of selleged of selleged of selleged of selleged
03 AREA POTENTIALLY AFFECTED: UN Known SSI sample results show off-source contamination attributable to old gramy pits 01 BG DRINKING WATER CONTAMINATION 7,169 02 DBSERVED (DATE: 03 POPULATION POTENTIALLY AFFECTED: 7,169 04 NARRATIVE DESCRIPTION See "A." above - SSI sample results show a unknown well at a concentration of 1.8 ppb (estimated) 01 DH. WORKER EXPOSURE/INJURY 02 DBSERVED (DATE: 04 NARRATIVE DESCRIPTION	of sell by compounds Description of selleged of sell by compounds Description of selleged of selleged of selleged of selleged of selleged of selleged
03 AREA POTENTIALLY AFFECTED: UN Known SSI sample results show off-source contamination attributable to old grampits 01 BG. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 7,169 04 NARRATIVE DESCRIPTION See "A." above - SSI sample results show a unknownell at a concentration of 1.8 ppb (estimated) 01 DH. WORKER EXPOSURE/INJURY 02 DBSERVED (DATE:	of sell by compounds Description of selleged of sell by compounds Description of selleged of selleged of selleged of selleged of selleged of selleged
03 AREA POTENTIALLY AFFECTED: UN Known SSI sample results show off-source contamination attributable to old gramy pits 01 BG DRINKING WATER CONTAMINATION 7,169 02 DBSERVED (DATE: 03 POPULATION POTENTIALLY AFFECTED: 7,169 04 NARRATIVE DESCRIPTION See "A." above - SSI sample results show a unknown well at a concentration of 1.8 ppb (estimated) 01 DH. WORKER EXPOSURE/INJURY 02 DBSERVED (DATE: 04 NARRATIVE DESCRIPTION	of sell by compounds Description of selleged of sell by compounds Description of selleged of selleged of selleged of selleged of selleged of selleged
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03 AREA POTENTIALLY AFFECTED: UN Known SSI sample results show off-source contamination attributable to old gramy pits 01 BG DRINKING WATER CONTAMINATION 7,169 02 DBSERVED (DATE: 03 POPULATION POTENTIALLY AFFECTED: 7,169 04 NARRATIVE DESCRIPTION See "A." above - SSI sample results show a unknown well at a concentration of 1.8 ppb (estimated) 01 DH. WORKER EXPOSURE/INJURY 02 DBSERVED (DATE: 04 NARRATIVE DESCRIPTION NONE documented or 86 Served	of sell by compounds Description of sell by compounds Description of sell by compounds Description of selleged Description of selleged Description of selleged Description of selleged
03 AREA POTENTIALLY AFFECTED: UNKnown SST sample results show off-source contamination attributable to old gramp pits 01 BG. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 7,169 04 NARRATIVE DESCRIPTION See "A." above - SST sample results show a unknown well at a concentration of 1-8 ppb (estimated) 01 DH. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION NONE DOCUMENTED OF 86 Served 01 DI. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION.	of sell by compounds Description of sell by compounds Description of sell by compounds Description of selleged Description of selleged Description of selleged Description of selleged
03 AREA POTENTIALLY AFFECTED: UN Known SSI sample results show off-source contamination attributable to old gramy pits 01 BG. DRINKING WATER CONTAMINATION 7,169 02 OBSERVED (DATE: 03 POPULATION POTENTIALLY AFFECTED: 7,169 04 NARRATIVE DESCRIPTION See "A." above - SSI sample results show a unknownell at a concentration of 1.8 ppb (estimated) 01 DH. WORKER EXPOSURE/INJURY 02 OBSERVED (DATE: 04 NARRATIVE DESCRIPTION NONE documented or observed 01 DH. POPULATION EXPOSURE/INJURY 02 OBSERVED (DATE: 04 NARRATIVE DESCRIPTION	of sell by compounds Description of selleged The present in on-site Description of the presen

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION 01 STATE 02 SITE NUMBER \$\int 0/48348287\$

	DOEDUED (DATE:		
04 NARRATIVE DESCRIPTION	BSERVED (DATE:)	□ POTENTIAL -	ALLEGED
hone documented o	r observed		
Mana areas		-	,
01 国 K. DAMAGE TO FAUNA 02 屋 C 04 NARRATIVE DESCRIPTION (Include name(s) of species)	BSERVED (DATE: 1987)	POTENTIAL "	M ALLEGED
A dog died on June 23, 1988	after Landerna onto	a past dis	امدما
area on the western part of the	rite	912	, 0341
01 ☐ L. CONTAMINATION OF FOOD CHAIN 02 ☐ C 04 NARRATIVE DESCRIPTION	BSERVED (DATE:)	☐ POTENTIAL	□ ALLEGED
•			
none documented or ob	served		
* * * * * * * * * * * * * * * * * * *	BSERVED (DATE: 6-4-9/)	7 POTENTIAL	ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 15 O 19 04 NAME	RATIVE DESCRIPTION		
Waste from pit area has been obse	ried to have traveled of	ff-site via a	low-lying
former creek bed			
01 ဩ N. DAMAGE TO OFFSITE PROPERTY 02 ☐ C 04 NARRATIVE DESCRIPTION	BSERVED (DATE:)	☐ POTENTIAL	☐ ALLEGED
See "M" above			
OF THE CONTAMINATION OF SEWERS STORM DRAINS WANTED. OF THE	RSERVED (DATE	□ POTENTIAL	□ ALLEGED
01 🖸 O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 02 🗇 C 04 NARRATIVE DESCRIPTION	BSERVED (DATE:)	- POTENTIAL .	·
hone documented or obse	nved		
Hone a remedied of core			
01 SZ P. ILLEGAL/UNAUTHORIZED DUMPING 02 🗆 0	BSERVED (DATE: 1981)	☐ POTENTIAL	T ALLECED
04 NARRATIVE DESCRIPTION			ALLEGED
In the middle 1960's gas cylinders	were buried on-site,	just west inf	the
quarry pond.			
OF DESCRIPTION OF ANY OTHER MADERN POTENTIAL OR ALL FOED LIAT	ADDO		-
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZ	:	•	-
•			
III. TOTAL POPULATION POTENTIALLY AFFECTED: 78.014	<u></u>		
III. TOTAL POPULATION POTENTIALLY AFFECTED: 78,014 IV. COMMENTS		<u> </u>	
	<u> </u>		
		,	-
W COURSES OF INFORMATION		·	
V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analy	sis, reports)		
IEPA files SSI of 6-4-91			•

SE	PA
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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

	I. IDENT	IFICATION "
i	01 STATE	02 SITE NUMBER
	TL	ハルクマルタ コマフ

	PART 4 - PERMIT	AND DES	CRIPTIVE INFORMA	TION L	Tr 10148348 481
II. PERMIT INFORMATION			· · · · · · · · · · · · · · · · · · ·		
01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE IS	SUED 04 EXPIRATION DAT	E 05 COMMENTS	
	IL0062A618				
☐ A. NPDES ☐ B. UIC	Troopanela	 		 	
	10700911V	 			
C. AIR	197809AAX	 		-	The second secon
D. RCRA				· · · · · · · · · · · · · · · · · · ·	
E. RCRA INTERIM STATUS		 		 	
F. SPCC PLAN		 		 	
G. STATE (Specify)		-		 	
☐ H. LOCAL (Specify)	1001 50 00			 	
EI. OTHER (Specify) Land	1981-59- OP	 			1
☐ J. NONE		<u></u>			
. SITE DESCRIPTION		· · ·			
Š	02 AMOUNT . 03 UNIT OF	MEASURE	04 TREATMENT (Check all tha	(apply)	05 OTHER
■ A. SURFACE IMPOUNDMENT	unknown		. A. INCENERÁTION .		
□ B. PILES			☐ B. UNDERGROUND IN	JECTION	A. BUILDINGS ON SITE
C. DRUMS, ABOVE GROUND) - COO - 11		C. CHEMICAL/PHYSIC	CAL	
	2-5000 gall	ON.	D. BIOLOGICAL		
E. TANK, BELOW GROUND		 }	☐ E. WASTE OIL PROCE		06 AREA OF SITE
F. LANDFILL	·-···		☐ F. SOLVENT RECOVE		··· 5.44
G. LANDFARM		 [G. OTHER RECYCLING	G/RECOVERY	iAcres
H. OPEN DUMP			☐ H. OTHER	pecify)	
I. OTHER			,0	200,,	•
	•				
	•				•
. CONTAINMENT					
CONTAINMENT OF WASTES (Check one)	····				
A. ADEQUATE, SECURE	☐ B. MODERATE	⊈ C. IN/	ADEQUATE, POOR	🗆 D. INSEÇUF	RE, UNSOUND, DANGEROUS
DESCRIPTION OF DRUMS. DIKING, LINERS, E The two 5000 gallo The surface impoundment oil refinery waste disp	n tanks have a ent consists of	a old	guarry pit of	unknown d	enth that had
/. ACCESSIBILITY			· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
01 WASTE EASILY ACCESSIBLE: RYES 02 COMMENTS A1though a Containing tar-like	snow fence has	been p	placed around to through a m	a pit, oth	ner aneas
. SOURCES OF INFORMATION (Cite sp	ecific references, e.g. state files, sample	e analysis, repor	isj		
IEPA Land Divisi	on files				i
IEPA Water Pollut					
	+ = 91 . 1 * 1 * 5 * 64		•	i .	
			•	•	

\$EPA	POT	ENTIAL HAZAI SITE INSPEC R, DEMOGRAPH	TION RE	PORT		I. IDENTIFICATION O1 STATE 02 SITE NUMBER FL D/4834828
II. DRINKING WATER SUPPLY						
01 TYPE OF DRINKING SUPPLY (Check as applicable)		02 STATUS				03 DISTANCE TO SITE
SURFAC COMMUNITY A. NON-COMMUNITY C.	8. 🕱	ENDANGER A. □ D. □	8	ECTED -	MONITORED C. F.	A. 0.25 (mi) B. <u>4400 (mi)</u> fee
III. GROUNDWATER					- •	
01 GROUNDWATER USE IN VICINITY (Che	B. DRINKING (Other sources avail	NDUSTRIAL, IRRIGATIO	- 0	COMMERCIAL	., INDUSTRIAL, IRRIGA irces avauable)	TION. D. NOT USED, UNUSEABL
02 POPULATION SERVED BY GROUND W	ATER 7, 169		03 DISTAN	CE TO NEARE	ST DRINKING WATER	well <u> </u>
04 DEPTH TO GROUNDWATER 25 (ft)	05 DIRECTION OF GR		08 DEPTH 1 OF CON		07 POTENTIAL YIE OF AQUIFER UNKNOWN	D OB SOLE SOURCE AQUIFE ☐ YES NO
OB DESCRIPTION OF WELLS finctuding uses Private and public a quifer. Approxim within four miles.	wells in the	e area obt				
10 RECHARGE AREA LYES COMMENTS NO			11 DISCHA	RGE AREA COMMEN	тѕ	
IV. SURFACE WATER						
01 SURFACE WATER USE (Check one)						
S A RESERVOIR RECREATION	□ B. IRRIGATIO	ON ECONOMICALLY	/ 52.C.	COMMERC	AL. INDUSTRIAL	D. NOT CURRENTLY USE

DRINKING WATER SOURCE	IMPORTANT RE	ESOURCES			
02 AFFECTED/POTENTIALLY AFFECTED BODIES	OF WATER		•	· · · · · · · · · · · · · · · · · · ·	
NAME:		•	AFFECTED	DISTANCE TO SIT	E.
Sugar Run Creek	· · · · · · · · · · · · · · · · · · ·			on-site	(mi).
Desplaines River				one	(mi)
					(mi)
V. DEMOGRAPHIC AND PROPERTY IN	FORMATION				•
01 TOTAL POPULATION WITHIN			02 DISTANCE TO NEAR	EST POPULATION	
ONE (1) MILE OF SITE TWO (2	MILES OF SITE	- THREE (3) MILES OF SIT	E .	400 mil Coe	+

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE

04 DISTANCE TO NEAREST OFF-SITE BUILDING

100 (mi) feet

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

The area within a 4-mile vadius is densely populated. The immediate area surrounding the site is populated by subdivisions and commercial business and some light industry. North of the site the area is densely populated with most of the city of Joliet failing into that area. The city of Joliet has a population of 76, 836.

Q :	F	P	Δ
			-

POTENTIAL HAZARDOUS WASTE SITE

I. IDENTIFICATION

SEPA	and the second s	TION REPORT IIC, AND ENVIRONMENTAL DATA	A FL D148348287
VI. ENVIRONMENTAL INFORMA	ATION		
01 PERMEABILITY OF UNSATURATED 2	ONE (Check one)		
□ A. 10 ⁻⁶ - 10 ⁻⁶	-8 cm/sec] C. 10 ⁻⁴ - 10 ⁻³ cm/sec ☐ D. GREAT	FER THAN 10 ⁻³ cm/sec
02 PERMEABILITY OF BEDROCK (Check	one)		
☐ A. IMPERI	MEABLE B RELATIVELY IMPERMEAB (10 ⁻⁶ cm/sec)	LE C. RELATIVELY PERMEABLE (10 ⁻² - 10 ⁻⁴ cm/sec)	D. VERY PERMEABLE (Greater than 10 ⁻² cm:sec)
03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH	
<u>/2</u> (n)	un known (tt)	unknown	•
06 NET PRECIPITATION + 3.0 (in)	07 ONE YEAR 24 HOUR RAINFALL (in)	obslope Site slope Direction of site 5 % South and w	TE SLOPE TERRAIN AVERAGE SLOPE
09 FLOOD POTENTIAL SITE IS IN / 00 YEAR FLO	DODPLAIN SITE IS ON BARRI	IER ISLAND, COASTAL HIGH HAZARD AR	
11 DISTANCE TO WETLANDS (5 acre minut	num)	12 DISTANCE TO CRITICAL HABITAT (of endan	ngered species)
ESTUARINE	OTHER	0.4	13 (mi) downstream 1-billed Grebe n Salad (Valerianella
A (mi)	B(mi)	ENDANGERED SPECIES: Com	n Salad (Valerianella
13 LAND USE IN VICINITY			Chenopodifolia
A O O MILE IN RELATION 14 DESCRIPTION OF SITE IN RELATION McKinle Sch	TO SURROUNDING TOPOGRAPHY	FRESERVES PRIME AG	
IEPA Land Div	Ision files	oducts, Inc.	Joinet Country Club
0 1 03 1 6p 6 9 1 1	Thirt tour maps		

≎EPA		OTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT ART 6 - SAMPLE AND FIELD INFORMATION	
II. SAMPLES TAKEN	· · · · · · · · · · · · · · · · · · ·		;
SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	3	TEPA LAB- SPRWGFIELD (ORGANICS) TEPA LAB- CHAMATIGN (INORGANICS)	August 1991
SURFACE WATER			
WASTE	3	TEPA LAB-SPRINGFIELD CORGANICS) FEPA LAB-CHAMPAIGN (INDRGANICS)	August 1991
AIR			
RUNOFF			
SPILL			
SOIL	6	TEPA LAB - SPAINGFIAD (ORGANICS) FERA LAB - CHAMPAIGN (INORGANICS)	Argust 1991
VEGETATION			
OTHER			
III. FIELD MEASUREMENTS TA	KEN	<u> </u>	
OITYPE AHOTO-IONIZATION DETECTOR (HNU)	02 COMMENTS	MOINGS SIGNIFICHINTLY OVER BACK GROWN	۵
IV. PHOTOGRAPHS AND MAPS	5		
01 TYPE S GROUND AERIAL		02 IN CUSTODY OF TEPA - LPC (Name of organization or individual)	
03 MAPS 04 LOCATION 5% YES □ NO	CEPA - LPC		
V. OTHER FIELD DATA COLLE	CTED (Provide narrative desc	ription	
		onductivity measurements were taken	of all
groundwater	samples	during purging and prior to sampling.	• •
			·
			•
VI. SOURCES OF INFORMATIO	N (Cite specific references, e.	g., state files, Sample analysis, reports)	·
IEPA SSI S	f June 4	th and 5th, 1991	
			. *

EPA FORM 2070-13 (7-81)

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENTIFICATION

01 STATE | 02 SITE NUMBER

TL | 1/48348287

·		PART / - OWNE	RINFORMATION		
II. CURRENT OWNER(S)		PARENT COMPANY (II applicable)			
O1 NAME			OB NAME A	C	9 D+B NUMBER
Matheson Gas Prosser ADDRESS (P.O. BOX. RFD P. OIC.)	aducts	•	NIDADA - Sansu		1, 1
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	. :	11 SIC CODE
30 Seaview Orive	. ,				
05 CITY	06 STATE	07 ZIP CODE	12 CITY T L -	13 STATE	14 ZIP CODE
Secqueus	NJ	07094	To Kyo, Japan		•
01 NAME		02 D+B NUMBER	08 NAME		9 D+B NUMBER
03 STREET ADDRESS (P.O. Box. RFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE
· · · · · · · · · · · · · · · · · · ·				: .	
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
01 NAME	*	02 D+B NUMBER	OB NAME	. (09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box. RFD 4. etc.;	<u> </u>	11SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
01 NAME		02 D+8 NUMBER	OB NAME		09 D+B NUMBER
03 STREET ADDRESS (P.O. Box. RFD 4, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
III. PREVIOUS OWNER(S) (List mast recent first)		•	IV. REALTY OWNER(S) (If applicable: list most recen	firat)	-
UGI, Inc. (50% on	merch.	02 D+B NUMBER	01 NAME		02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD ≠, etc.)		04 SIC CODE
Pennsylvania	OBSTATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
G. D. Searle		02 D+B NUMBER	01 NAME		02 D+B NUMBER
03 STREET ADDRESS (P.O. Box. RFD *, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box. RFD #. etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER	O1 NAME		02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE
05CITY	06STATE	07 ZIP CODE	05 CITY	06 STATE	D7 ZIP CODE
V. SOURCES OF INFORMATION (Cite specif	ports)				
			· · · · · · · · · · · · · · · · · · ·		

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

	I. IDENTIFICATION					
	01 STATE	02 SITE NUMBER				
Ì		D148348287				

VLIA		•	PART 8 - OPERAT	OR INFORMATION	40 1	1148348487
II. CURRENT OPERATO	R (Provide if different from	owner)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	OPERATOR'S PARENT COMPANY	(If applicable)	
OI NAME Matheson O3 STREET ADDRESS (P.O. Bo.	Gas Produc		02 D+B NUMBER	NIDDON - Sancu		11 D+B NUMBER
03 STREET ADDRESS (P.O. Bo.	x, RFD #, etc.)	<u>.,</u>	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE
Manhattan Rd. 6	o Richards S	treet	<u> </u>			
05 CITY		06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
Joliet	·	IL	60434-	Tokyo, Japan	·]	
08 YEARS OF OPERATION	09 NAME OF OWNER	·	·			
III. PREVIOUS OPERATO	OR(S) (List most recent fire	st; provide only	if different from owner)	PREVIOUS OPERATORS' PARENT	COMPANIES ((applicable)
01 NAME	• .		02 D+B NUMBER	10 NAME		11 D+B NUMBER
03 STREET ADDRESS (P.O. Box	x, RFD #, etc.)	. <u></u>	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE
05 CITY		08 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER D	URING THIS	PERIOD			
O1 NAME			02 D+B NUMBER	10 NAME		11 D+B NUMBER
03 STREET ADDRESS (P.O. Box	, RFD #, etc.)	<u> </u>	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #. etc.)		13 SIC CODE
05 CITY		06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER D	URING THIS	S PERIOD			
01 NAME		•	02 D+B NUMBER	10 NAME		11 D+B NUMBER
03 STREET ADDRESS (P.O. Box	, RFD #, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)	~	13 SIC CODE
05 CITY		06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER D	DURING THIS	PERIOD			<u> </u>
IV. SOURCES OF INFOR	RMATION (Cite specific	references, e.	g., state files, sample enelysis.	reports)	 ;	
			- · ·			
IEPA Land	Pollution C	ontrol	yler			•
•••				•		
				• •		
	, <u>p. 1</u>					
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ŞEPA	•	SITE INSPE	ARDOUS WASTE SITE CTION REPORT		ICATION 2 SITE NUMBER 21483482 87
<u> </u>	PART	y - GENERATOR/TI	RANSPORTER INFORMATION		
II. ON-SITE GENERATOR		TO2 D+B NUMBER		·	,. ···
OI NAME N/A		02 D+B NUMBER		* . *	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	7		
05 CITY	06 STATE	07 ZIP CODE	_		· . · ·
•					
III. OFF-SITE GENERATOR(S)				dt i	
O1 NAME		02 D+B NUMBER	01 NAME		02 D+B NUMBER
	.· 	1	·	·	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER	01 NAME		02 D+B NUMBER
		-			
03 STREET ADDRESS (P.O. Box, RFD +, ⊕(c.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD =, etc.)		04 SIC CODE
			.		
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
IV. TRANSPORTER(S)		<u> </u>	<u> </u>		<u> </u>
O1 NAME N/A		02 D+B NUMBER	01 NAME		02 D+8 NUMBER
03 STREET ADDRESS (P.O. Box, RFD #. etc.)		04 SIC CODE .	03 STREET ADDRESS (P.O. Box, RFD . etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME	<u> </u>	02 D+B NUMBER	01 NAME		02 D+8 NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box. RFD #. etc.)		04 SIC CODE
D5 CITY	IOR STATE	07 ZIP CODE	05 CITY	loe stati	07 ZIP CODE
	JOS STATE	OF ZIP CODE	USCIFI	.	O ZIP GODE
V. SOURCES OF INFORMATION (Cite spec	the references.	e.g., state files, sample analysis	(epons)	:	
FEPA Land F					
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EPA FORM 2070-13 (7-81)

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

FL D1483482

	PART 10 - PAST RESPONSE ACTIVITIES	TO 101103 10 00 1
IL PAST RESPONSE ACTIVITIES		
01 A. WATER SUPPLY CLOSED	02 DATE	03 AGENCY
04 DESCRIPTION	<i>I</i> A	
• /	A service of the serv	and the second s
01 [] B. TEMPORARY WATER SUPPLY PROVIDE	D 02 DATE	03 AGENCY
04 DESCRIPTION		
1		·
01 C. PERMANENT WATER SUPPLY PROVIDE	D 02 DATE	03 AGENCY
04 DESCRIPTION	•	
,		· · · · · · · · · · · · · · · · · · ·
01 D. SPILLED MATERIAL REMOVED	02 DATE	03 AGENCY
04 DESCRIPTION	OZ DATE	US AGENCT
	•	
	· · · · · · · · · · · · · · · · · · ·	
01 E. CONTAMINATED SOIL REMOVED O4 DESCRIPTION	02 DATE	03 AGENCY
ov begonin rich		
7213		<u> </u>
01 T. WASTE REPACKAGED	02 DATE	
04 DESCRIPTION	· · · · · · · · · · · · · · · · · · ·	····
01 G. WASTE DISPOSED ELSEWHERE	02 DATE	03 AGENCY
04 DESCRIPTION	·	
·		
01 G H. ON SITE BURIAL	02 DATE	03 AGENCY
04 DESCRIPTION		
		•
01 D I. IN SITU CHEMICAL TREATMENT	02 DATE	03 AGENCY
04 DESCRIPTION		
	•	
01 🗇 J. IN SITU BIOLOGICAL TREATMENT	02 DATE	03 AGENCY
04 DESCRIPTION	<u></u>	
	•	
01 D K. IN SITU PHYSICAL TREATMENT	O2 DATE	03 AGENCY
04 DESCRIPTION	OZ DATE	OS AGENCI
		• •
01 □ L ENCAPSULATION	O2 DATE	00 405107
04 DESCRIPTION	UZ DATE	03 AGENCY
		20.405101
01 M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
54 52507.III 11011		•
01 N. CUTOFF WALLS	02 DATE	03 AGENCY
04 DESCRIPTION		
01 O. EMERGENCY DIKING/SURFACE WATER	DIVERSION 02 DATE	03 AGENCY
04 DESCRIPTION		
<u>.</u> 1		•
01 ☐ P. CUTOFF TRENCHES/SUMP	02 DATE	03 AGENCY
04 DESCRIPTION	·	
04 DESCRIPTION		
OF SESSIFICA		
	00.04-7	00.4051/07
01 □ Q. SUBSURFACE CUTOFF WALL 04 DESCRIPTION	02 DATE	03 AGENCY

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		4

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENTIFICATION					
	01 STATE	02 SITE NUMBER			
	JL	D148348287			

	PART 10 - PAST RESPONSE ACTIVITIES	Tr D14834898 /
PAST RESPONSE ACTIVITIES (Continued)		
01 R. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY
01 S. CAPPING/COVERING 04 DESCRIPTION	02 DATE	03 AGENCY
01 T. BULK TANKAGE REPAIRED 04 DESCRIPTION	02 DATE	03 AGENCY
01 D U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY
01 C V. BOTTOM SEALED 04 DESCRIPTION	O2 DATE	03 AGENCY
01 ☐ W. GAS CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY
01 E X. FIRE CONTROL 04 DESCRIPTION	O2 DATE	03 AGENCY
01 D Y. LEACHATE TREATMENT 04 DESCRIPTION	O2 DATE	03 AGENCY
01 Z. AREA EVACUATED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION	O2 DATE	03 AGENCY
01 ☐ 2. POPULATION RELOCATED 04 DESCRIPTION	O2 DATE	.03 AGENCY.
01 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION	02 DATE	03 AGENCY
· ·		

III. SOURCES OF INFORMATION (Cite specific references, e.g., state lifes, sample analysis, reports)

FEPA Land files



POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

TL D/48348287

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION 🗆 YES 🗆 NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

APPENDIX D TARGET COMPOUND LIST

TARGET COMPOUND LIST

Volatile Target Compounds

<u> Comp</u>	ound	Water CRDL	Soil/Solid CRDL
1.	cnloromethane	10 ug/1	10 ug/kg
2.	bromomethane	10	-10
3.	vinyl chloride	10	10
4.	chloroethane	10	10
5.	methylene chloride	5	5
6.	acetone	10	10
7.	carbon disulfide		
8.	l,l-dichloroethene	5 5 5 5 5	5 5 5 5 5 5
3.	1,1-dichloroethane	5	5
	1,2-dichloroethene (total)	5	5
	1,2-dichloropropane	5	5
12.	chloroform	5	5
13.	1,2-dichloroethane	· 5	5
14.	2-butanone	10	10
15.	l,l,l-trichloroethane	5 5	
16.	carbon tetrachloride		5 5
17.	vinyl acetate	10	10
	dichlorobromomethane	5	. 5
19.	c-1,3-dichloropropene	5 5 5 5 5 5	5 5 5 5 5 5 5
20.	trichloroethene	5	5
21.	benzene	5	5
22.	chlorodibromomethane	- 5	5
	1,1,2-trichloroethane	5	5
24.	t-1,3-dichloropropene	5 .	5
25.	bromoform		
26.	2-hexanone	10	10
27.	4-methyl-2-pentanone	10	10
2 8 .	1,1,2,2-tetrachloroethane	5	5
29.	tetrachloroethene	5	5
30.	toluene	5	5
31.	chlorobenzene	5 5 5	5
32.	ethylbenzene	5	5
33.	styrene	5	5 5 5 5 5 5
34.	total xylenes	5	5

CRDL - Contract Required Detection Limit

CRINKING WATER SAMPLES — In the case of drinking water samples, the Lab can be requested to report the instrument detection limit which is lower than the CRDL for VOC analysis. This request must be made at the time of scheduling since more samples will be required by the Lab. (See footnote on previous page).

Base/Neutral Target Compounds

Сотр	ound	Water CRDL	Soil/Solid
,	Have ab large the second		
1. 2.	Hexachloroethane	10 ug/1	330 ug/kg
3.	Bis (2-chloroethyl) ether	10	330
	Benzyl Alcohol	10	330
4. 5.	Bis (2-chloroisopropyl) ether	10	330
5. 6.	N-nitrosodi-n-propylamine	10	330
7.	Nitrobenzene	10	330
	Hexachlorobutadiene	10	330
8.	2-Methylnaphthalene	10	330
9.	1,2,4-trichlorobenzene	10	330
10.	Isophorone	10	330
11.	Naphthalene	10	330
12. 13.	4-Chloroaniline	10	330
14.	Bis (2-chloroethoxy) methane	10	330
15.	Hexachlorocyclopentadiene	10	330
16.		10	330
17.	Acenaphthylene	50	1600
	.3-Nitroaniline	10	330
19.	Acenaphthene	50	1600
	Dibenzofuran	10	330
21.	Dimethylphthalate	10	330
22.	2,6-Dinitrotoluene	10	330
23.	Fluorene	10	330
24.	4-Nitroaniline	10	330
2 5 .		50	1600
26.	4-Chlorophenyl-phenyl ether	10	330
27.	2,4-Dinitrotoluene	10	330
28.	Diethylphthalate	10 .	330
29.	N-Nitrosodiphenylamine Hexachlorobenzene	10	330
30.	Phenanthrene	10	330
31.		10	330
32.	4-Bromophenyl-phenyl ether Anthracene	10	330
33.		10	330
34.	Dibutylphthalate	10	330
3 4 .	Fluoranthene	10	330
36.	Pyrene Putul hoozul obtholoto	10	330
37.	Butyl benzyl phthalate Bis (2-ethylhexyl) phthalate	10	330
38.		10	330
39.	Chrysene Benzo (a) anthracene	10	330
40.		10	330
41.	• • • • • • • • • • • • • • • • • • • •	20	660
42.	Di-n-octyl phthalate	10	330
42. 43.	Benzo (b) fluoranthene	10	330
	Benzo (k) fluoranthene	10	330
44.	Benzo (a) pyrene	10	330
45.	Indeno (1,2,3-cd) pyrene	10	330
46.	Dibenzo (a,h) anthracene	10	330
47.	Benzo (g,h,i) perylene	10	330
48.	1,2-Dichlorobenzene	10	330
49 .	1,3-Dichlorobenzene	10	330
50.	1,4-Dichlorobenzene	10	330

Acid Target Compounds

Compound		Water CRDL	Soil/Solid CRDL	
1	Benzoic Acid	50 ug/1	1600 ug/kg	
2.	Phenol	10	330	
3.	2-chlorophenol	10	330	
4.	2-nitrophenol	50	1600	
5.	2-methylphenol	10	330	
6.	2,4-dimethylphenol	10	330	
7.	4-methylphenol	10	330	
8.	2,4-dichlorophenol	10	330	
9.	2,4,6-trichlorophenol	10	330	
10.	2,4,5-trichlorophenol	50	1600	
11.	4-chloro-3-methylphenol	10	330	
12.	2,4-dinitrophenol	50	1600	
13.	2-methyl-4,6-dinitrophenoi	50	1600	
14.		50	1600	
15.	4-nitrophenol	50	1600	

Pesticide Target Compounds

Comp	oound	Water CRDL	Soil/Solid CRDL	
1.	alpha-BHC	.0 5 ug/1	8.0 ug/kg	-
2.	beta-8HC	.05	8.0 8.0	
3.	delta-BHC	.05	8.0	
4.	Lindane (gamma-BHC)	.05	8.0	
5.	Heptachlor	.05	8.0	
6.	Aldrin	.05	8.0	
7.	Heptachlor epoxide	.05	8.0	
8.	Endosulfan I	.05	8.0	
9.	4,4'-DDE	.10	16.0	
10.	Dieldrin	.10		
11.	Endrin	.10	16.0	
12.	4,4'-DDD	.10	16.0	
13.	Endosulfan II	.10	16.0	
14.	4,4'-DDT	.10	16.0	
15.	Endrin aldehyde	.10	16.0	
16.	Endosulfan sulfate	.10	16.0	
17.	Methoxychlor	. 50	16.0	
18.	alpha-Chlorodane	. 5	80.0	
19.	gama chlorodane	.5	80.0	
20.	Toxaphene	. 50	80.0	
	Arochlor-1016	1.0	80.0	
22.	Arochlor-1221		160.0	
23.	Arochlor-1232	. 50	80.0	
24.		. 50	80.0	
25.	Arochlor-1248	. 50	80.0	
26.	Arochlor-1254	. 50	80.0	
27.		1.0	160.0	
۷1.	Arochlor-1260	1.0	160.0	

Inorganic Target Compounds

<u>Metals Analys</u>	es (CRDL)-ug/l*	Other Inorganics
Aluminum Antimony	200 60	Cyanide Sulfide
Arsenic	10	Phenois
Barium	200	Nitrogen-Ammonia
Beryllium		Nitrogen, Total Kjeldahl
Cadmium	5 5	Nitrogen-Nitrate
Calcium	5000	Boron
Chromium	10	pH
Cobalt	50	Sulfate
Copper	25	Chloride
Iron	100	
Lead	5	
Magnesium	5000	
Manganese	15	
Mercury	0.2	
Nickel	40	
Potassium	5000	
Selenium	5	
Silver	10	
Silver	5000	
Thallium	10	
Vanadium	50	
Zinc	20	

*Any analytical method specified in the Quality Assurance Project Plan (QAPP) may be utilized as long as the documented instrument or method detection limits meet the Contract Required Detection Level requirements. Higher detection levels may only be used in the following circumstance:

If the sample concentration exceeds two times the detection limit of the instrument or method in use, the value may be reported even though the instrument or method detection limit may not equal the CRDL. This is illustrated in the example below:

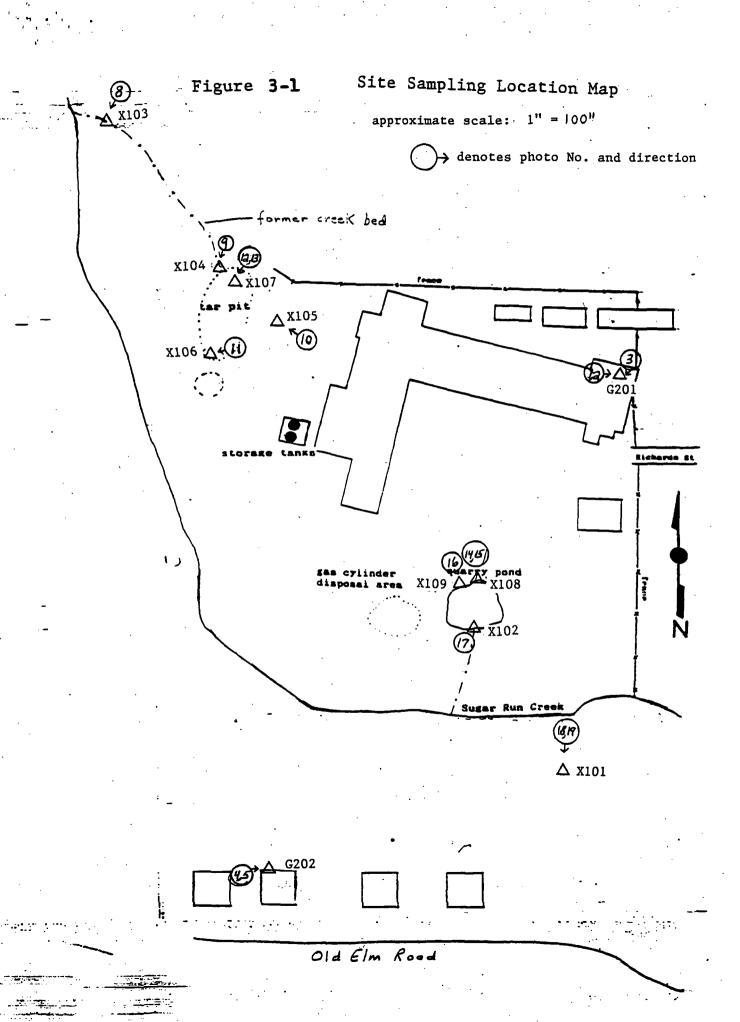
For lead:

Method in use -- ICP
Instrument Detection Limit (IDL) = 40
Sample Concentration = 85
Contract Required Detection Level (CRDL) = 5

The value of 85 may be reported even though instrument detection limit is greater than required detection level. The instrument or method detection limit must be documented as described in Form IIIX.

These CRDL are the instrument detection limits obtained in pure water that must be met using ICP/Flame AA or Furnace AA. The detection limits for samples may be considerably higher depending on the sample matrix.

APPENDIX E IEPA SITE PHOTOGRAPHS



	7				
Date: 6/5/91					
Time: 9:/5			# F. A.		UL STATE
otographed By:					1
· AL Kirwan					
Location:					
LPC 1970450022					
Matheson Gas			Wite BASE SAGE	distriction of the second	
6,11 co.		A-S			
Comments: Photograph taken			and the same		Jake
toward the South					
sample point X-101		SALAN	7/2	42	
background soil sample					
Photograph Number: 19					
Roll Number: 91-147- 09		•			
_			_		
Date:					,

Photographed By:

Location:

LPC

Co.

Comments: Photograph taken
toward the

Photograph Number:

Roll Number:

NO NOTO

in coloitar
te: 6/4/91
me: 10:25A
anaphod Bw
graphed By:
. AL Kirwan
ocation:
20.1970450022
Natheson Gas
Will co.
omments: Photograph taken
oward the east
showing sample point 6-20
the on- site well
Photograph Number: 1
Roll Number: 91-146-03



Date: 6/4/9/

Time: 10:25 A

Photographed By:

AL Kirwan

Location:

LPC 1970450022

Matheson Gas

Will Co.

Comments: Photograph taken

toward the east

Showing sample point 6-20/

Photograph Number:

Roll Number: 91-146-04



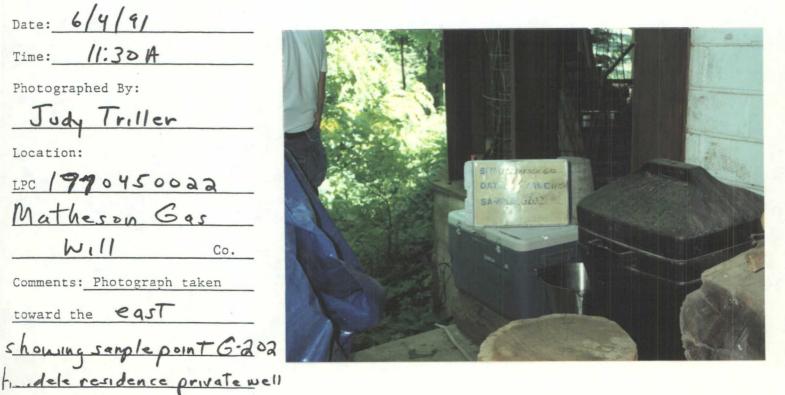
Date: 6/4/91	
Time: 10.25A	
111111111111111111111111111111111111111	
ographed By:	
-AL Kirwan	
Location:	
LPG 197 045 002	2
Matheson Gas	
Will	Co.
Comments: Photograph ta	ken
toward the South wes	st
showing sample p	OINT
6-201	
Photograph Number: 3	
Poll Number: 91-146	-15



Date: 6/4/4/ Time: 11:30 A Photographed By: Judy Triller Location: LPC /990450022 Matheson Gas Will co. Comments: Photograph taken toward the easT showing sample point 6-202

Photograph Number: 4

Roll Number: 91-146-06



A STATE OF THE PARTY OF THE PAR
ate: 6/4/91
ime: (1:30A
graphed By:
Judy Triller
Location:
IPC 1970450022
Matheson Gas
Will co.
Comments: Photograph taken
toward the east
howing sample point 6-202
tendele residence private wel
Photograph Number: 5
Roll Number: 91-146-07



Date: 6/4/91 Time: (:00 P Photographed By: Judy Triller Location: LPC 1990450022 Matheson Gas

Will

Comments: Photograph taken

toward the north west

sample point 6-203

L arview Subdivision well no. 2

Photograph Number: 6

Roll Number: 91-146-08



1 Ag	
Date: 6/4/4/	Ave a
ime: [:00 P	
ngraphed By:	
. Judy Triller	-6,
.ocation:	
PC. 199045 0022	45
Matheson Gas	
W11) co.	
Comments: Photograph taken	4.52
toward the northwest	
emplepoint 6-203	
Jearview Subdivision well	n o. 2
Photograph Number: 7	
Roll Number: 91-/46-09	



Date: 6/4/9/ Photographed By:

Judy Triller

Location:

LPC 1970450022

Matheson Gas

Will co.

Comments: Photograph taken

toward the Southwest

sample point X-103 near



c ilvence of Sugar Run Creek and former creek bed of Sugar Run Creek

Photograph Number:

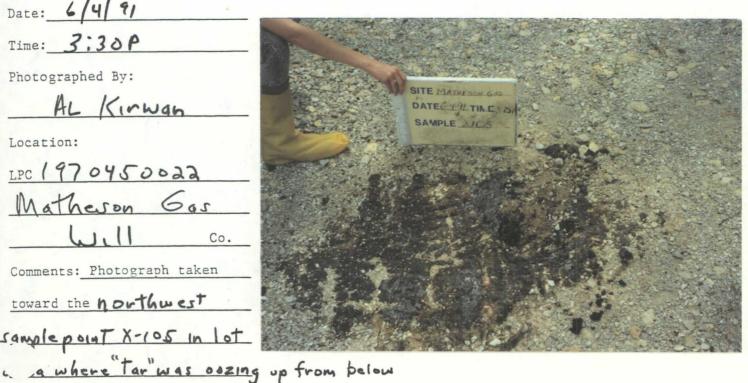
Roll Number: 9/-/46-/0

Date: 6/4/91 Time: 2:25 P P ographed By: Judy Triller LPC. 1970450022 Matheson Gas Comments: Photograph taken toward the Southwest cample point X-104 near "tar pit" Photograph Number: 9

Roll Number: 91-146-11



Date: 6/4/91 Time: 3:30P Photographed By: AL Kirwan Location: LPC 1970450022 Matheron Gas 1.11 Comments: Photograph taken toward the northwest



Photograph Number: 10 Roll Number: 91-147-00

sample point X-105 in lot

Date:	ı	:6	14	19		
Time:	s	} /	4	10	P	

ographed By:

· Judy Triller

Location:

Matheson Gas

W11 co.

Comments: Photograph taken

toward the west

sample point X-106 at

southern end of fenced "tor pit"

Photograph Number: |

Roll Number: 91-147-01



Date: 6/4/91

Time: 4:15P

Photographed By:

Judy Triller

Location:

LPC (970450022

Matheron Gas

Will co.

Comments: Photograph taken

toward the Southwest

sample point X-107 at

" thern end of fenced "tarpit"

Photograph Number: 12

Roll Number: 91-147-02



Date: 6/4/9/
Time: 4:15P

tographed By:

Judy Triller

Location:

LPC (970450022

Matheson Gas

Will Co.

Comments: Photograph taken



Photograph Number: 13

toward the southwest

sample point X-107 at

Roll Number: 91-147-03

Date: 6/5/8/
Time: 8:30 A

Photographed By:

Judy Triller

Location:

LPC 197 045 00 22

Matheson 6 05

Comments: Photograph taken

toward the easT

sample point X-108 at

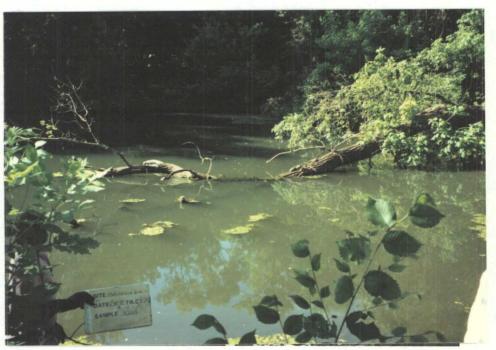
inchate seep on bank of quarry pond

Photograph Number: 14

Roll Number: 9/-147-04



11.1
Date: 6/5/91
Cime: 8:30A
fime: 0.30FF
ographed By:
. Judy Triller
Location:
LPC 1970450022
Matheson Gas
Will co.
Comments: Photograph taken
toward the south
sample point x-108-area
of quarry pond
Photograph Number: 15
Roll Number: 91-147-05



Date: 6/5/9/
Time: 8:40

Photographed By:

AL Kirwan

Location:

LPC 1970450022

Matheson Gas

Will co.

Comments: Photograph taken

toward the wesT

somple point X-109 at

o . fall of NPDES discharge into quarry pond

Photograph Number: 16

Roll Number: 91-147-06



\$ 1 h		
Date: 6/5/91		
Time: 9:10 A		
tographed By:		
· AL Kirwan		SITE MATH
Location:		DATE 65 9
LPC 1970450022	Cart	SAMPLE_
Matheson Gas		
Will co.		
Comments: Photograph taken		1
toward the North		15
sample point X-10a	A A	
where quarry pond overflow	ed anias to Sug	ar Run Creek
Photograph Number:	_	
Roll Number: 91-147-07		
Date: 6/5/8/		
Time: 9:15 A		The state of the s
Photographed By:		
AL Kirwan		
		U. Barrell
Location:	0 3m	
LPC 1970450022	经国际的	MATHESON GAS = 65-91 TIN.E 9:07
Matheson Gas		PLE_XIOL.
Co.		Control of the Contro
Comments: Photograph taken	A STATE OF THE PARTY OF THE PAR	A STATE OF THE STA
toward the South		
sample point X-101 was Kground Soil sample		
sample point X-101		





APPENDIX F
ISWS WELL LOGS

hite Copy —
III. Dept. of Public Head
ellow Copy — Well Contractor
lue Copy — Well Owner

FILL IN ALL PERTINENT INFORMATION REQUESTED AND IL ORIGINAL TO STATE DE-PARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

	Driven	Drive Pip Finished	e Diamin. in Drift acked	Depth 5 1ft.
Ċ	I. Grout:	(KIND)	FROM (Ft.)	TO (Ft.)
2. 1	Distance to Near	rest:	Seepage Tile Fie	ald 75'
1	Cess Pool	50'	Sewer (non Cast Sewer (Cast iron Barnyard Manure Pile	iron))
_	le water from thi	s well to be us	sed for human con	sumption?
4	Yes X	No	-10-72	
4.	Yes X Date well comple Permanent Pump Manufacturer X	No_eted/ Instailed? 'PACU'27/	7/0-72 Yes X Type Sc	No
4. 5.	Yes X Date well complete well complete well complete well complete well complete well and the we	Installed? Agpm. Dep	Yes X Type SC	No
4. 5. 5. 6.	Yes	Installed? Instal	Yes	No VBTES164, 42ft
4. 5. 6. 7.	Yes	Installed? Installed? Installed? Installed? Installed? Installed?	Yes Yes No	No
4. 5. 6. 7. 8. 1	Yes	Installed? Installed? Installed? Installed? Yes Yes Yes Yes	Yes	No
4. 5. 6. 7. 8. 9.	Yes	Installed? Installed? Installed? Installed? Yes Yes Yes Yes	Yes Yes No	No
4. 5. 6. 7. 8. 9.	Yes	Installed? Installed? Installed? Installed? Yes Yes Yes Yes	Yes	No

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Driller No. 233	3	Date_	1-11-	23	
12. Water from A / 100 Fine	ONE	13. Cou	nty 4	111	<. <u> </u>
at depth 1 to 66 ft.		Sec	38.	6	
14. Screen: Dicmin			1356		
Length:ft. Slot		_ Rge	. 105	-	1
15. Casing and Liner Pipe		Fie	V	L	1
Dism. (in.) Kind and Weight	t	From (Ft.)	To (Ft.)	Lo	SHOW CATION IN
5" A-53 15	This	0'	57'	SEC	TION PLAT
The second secon			The same	NE	3E
				1	
17. Static levelft. below above ground level. Pumpi gpm for hours.	w casing ng level	top whi	when p		DEPTH OF
17. Static levelft. below above ground level. Pumpi gpm for hours. 18. FORMATIONS PASSED TO	w casing ng level	top whi	when p	umping	Adams in a
17. Static levelft. below above ground level. Pumpi gpm for hours.	w casing ng level	top whi	when p	umping	DEPTH OF
17. Static levelft. below above ground level. Pumpi gpm for hours. 18. FORMATIONS PASSED TO	w casing ng level	top whi	when p	umping	DEPTH OF
17. Static level 10 ft. below above ground level. Pumpi gpm for 1 hours. 18. FORMATIONS PASSED TO CARL	w casing ng level:	top whi	when p	umping	DEPTH OF
17. Static level of the below above ground level. Pumping gpm for hours. 18. FORMATIONS PASSED TO CARY SHALE Y GRACE	w casing ng level:	top whi	when p	umping	DEPTH OF
17. Static level 10 ft. below above ground level. Pumpi gpm for 1 hours. 18. FORMATIONS PASSED TO CARL	w casing ng level:	top whi	when p	umping	DEPTH OF
17. Static level of the below above ground level. Pumping gpm for hours. 18. FORMATIONS PASSED TO CARY SHALE Y GRACE	w casing ng level:	top whi	when p	umping	DEPTH OF
17. Static level of the below above ground level. Pumping gpm for hours. 18. FORMATIONS PASSED TO CARY SHALE Y GRACE	w casing ng level:	top whi	when p	umping	DEPTH OF
17. Static level of the below above ground level. Pumping gpm for hours. 18. FORMATIONS PASSED TO CARY SHALE Y GRACE	w casing ng level:	top whi	when p	umping	DEPTH OF
17. Static level of the below above ground level. Pumping gpm for hours. 18. FORMATIONS PASSED TO CLAY SHALE YGRAC	w casing ng level:	top whi	when p	umping	DEPTH OF
gpm forhours. 18. FORMATIONS PASSED TO CARY SHALE Y GRACE	w casing ng level:	top whi	when p	umping	DEPTH OF

IDPH 4.065

White Cos III. Dept. of Public Health Yellow Copy — Well Contractor Blue Copy — Well Owner

INSTRUCTIONS T RILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1.	a. Dug Bored Hol Curb material Bu b. Driven Drive Pipe c. DrilledX Finished i Tubular Gravel Page	ried Slab: Yes_ Diam5_in. n Drift	NoNo
	d. Grout: (KIND)	FROM (Ft.)	TO (Ft.)
2.	. Distance to Nearest:		751
	Building 25 Ft.	Seepage Tile Fi	
		Sewer (non Cast	
	Privy)
•	Leaching Pit	Manure Pile	V N-
3.		consumption: 1	es_A No
4.	Date well completed 5-13-8	Deta	No X
Э.	i. Permanent Pump Installed? Yes ManufacturerTyp	Date	tion NO
	Monutacturer 19	Setting Locu	Ft.
6	Capacitygpm. Depth of 5. Well Top Sealed? Yes_X_No	Type Ver	min-Proof (Wms.
7	7. Pitless Adapter Installed? Yes	e X No	
•	Manufacturer Williams	Model Num	ber B-50AC
	How attached to casing?	model Num	The state of the second
8	3. Well Disinfected? Yes X	No	The Later County of the
9.	Pump and Equipment Disinfecte	d? Yes_X	No
10.	D. Pressure Tank Size 42 gal.	Type #202 V	Well-X-Trol
	Location house	sediment of special state of the Table	
11. BF	1. Water Sample Submitted? Yes	No	ζ
TIL	LIMITH UNO.		

GEOLOGICAL AND WATER SURVEYS WELL RECORD

U. Proper	ty owner John Lucas ss 993 Eunice St.,	Joliet.	Well No	
Drille	. Charles Fv	Kes Licens	e No.	23
1. Permi	No. 107055 from Limestone	Date _	5-6-83	
2. Water	from Limestone	13. Cou	nty Will	
4. Screen	th 81 to 125 ft. i: Diamin. it. Slot	Twp Rge	26,\(\psi^\psi\) 35N 10E	
15. Casin	g and Liner Pipe	Ele	v. — [Х
Diem. (in.)	Kind and Weight	From (Ft.)	To (Ft.)	SHOW CATION IN
5"	Sch 40 PVC	0	57 SEC	SE NO
	1120-NSF 2.87#		360	SE
7. Static above	lole below casing: 5 level#) 30 ft. below cas ground level. Pumping level.	ing top which	ch is +1. when pumpir	ng at10
17. Static above gpm fo	level 1 30 ft. below cas	ing top which	ch is +1. when pumpir	ng at
17. Static above gpm fo	level#) 30 ft. below cas ground level. Pumping lever hours. FORMATIONS PASSED THROU	ing top which	. when pumpir	ng at10
17. Static above gpm for 18.	level#) 30 ft. below cas ground level. Pumping lever hours. FORMATIONS PASSED THROU	ing top which	THICKNESS	DEPTH O
17. Static above gpm for 18. Top Soi	level#)30_ft. below cas ground level. Pumping lever	ing top which	THICKNESS	DEPTHON 2
17. Static above gpm for 18. Top Soi Clay Gray Li	level#)30_ft. below cas ground level. Pumping level orl_hours. FORMATIONS PASSED THROU 1 mestone	ing top which	THICKNESS 2' 55'	DEPTHO BOTTOM 2' 57'
17. Static above gpm for 18. Top Soi Clay Gray Li Shale	level#)30_ft. below cas ground level. Pumping lever	ing top which	THICKNESS 2' 55'	2' 57' 70'
17. Static above gpm for 18. Top Soi Clay Gray Li Shale	level#)30_ft. below cas ground level. Pumping level orl_hours. FORMATIONS PASSED THROU mestone	ing top which	THICKNESS 2' 55' 13' 10'	2' 57' 70'

INSTRUCTIONS TO DRILLERS

White Copy —
III. Dept. of Public Health
Yellow Copy — Well Contractor
Blue Copy — Well Owner

FILL IN ALL PERTINENT INFORMATION REQUE. .D AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

	Curb material But b. Driven Drive Pipe c. Drilled Finished in Tubular Gravel Pace	Dicam 5 _ in. n Drift	Depth 45 ft.
	d. Grout: (KIND)	FROM (Ft.)	TO (Ft.)
2.	Distance to Nearest:		751
	Building 30 Ft. S	Seepage Tile Fie	ld
		Sewer (non Cast i	
		Sewer (Cast iron)	
		Barnyard	
	,	Manure Pile	
	Well furnishes water for human o		
1.	Date well completed	10-2-84	
5.	Permanent Pump Installed? Yes	x Date	28-84 No
	Manufacturer Webtrol Typ	e Subm. Locat	ion <u>Well</u>
	Capacity 12 gpm. Depth of	Setting 120	Ft.
ò.	Well Top Sealed? Yes X No.	Type Vern	un-Proof (Wm
7.	Pitless Adapter Installed? Ye	S_A NO_	
	Manufacturer Williams	Model Numb	er 5011C
	How attached to casing? Compr		t Connection
	Well Disinfected? Yes X		
	Pump and Equipment Disinfecte		
	Pressure Tank Size 82 gal. Location basement		
	Water Sample Submitted? nives.	No_X	
1		the same of the sa	

GEOLOGICAL AND WATER SURVEYS WELL RECORD.

Addre	ty owner ssMill	s Rd. &	Herman La	ane		
Drille Drille	Cha	rles Fykes 115107	Licens	e No2 10-2-	0.1	
2. Water	from Lille	estone	13. Cour	nty_ W	ill	
	th 45 to 1	rmerion		23.2	-	П
the second secon	: Diam			. 35N		+++
	h:ft. S			10E		H K
					-	
5. Casin	g and Liner F	Pipe			L	X
Diem. (in.)	Kind e	nd Weight	From (Ft.)	To (Ft.)	1.0	SHOW CATION IN
5"	A-53	15 lbs.	0	45	SEC	TION PLA
					SW	SE NE
			7.5			
above	lole below co level 30 ground level or 1 hour	. Pumping lev				
above gpm fo	ground level	. Pumping lev	el <u>75</u> ft.		mpin	g at <u>12</u>
above gpm fo	ground level or 1 hour	. Pumping leves.	el <u>75</u> ft.	THICK	mpin	g at <u>12</u>
above gpm fo	ground level or 1 hour	. Pumping leves.	el <u>75</u> ft.	THICK	MESS	DEPTH O BOTTOM
above gpm fo	ground level or 1 hour formations in Top S	Pumping leves. PASSED THROUGOIL	el <u>75</u> ft.	THICK	Impino	DEPTHON BOTTOM
above gpm fo	ground level or 1 hour formations in Clay	Pumping leves. PASSED THROUGOIL	el <u>75</u> ft.	THICK	Impino	DEPTH O BOTTOM 5' 45'
above gpm fo	ground level or 1 hour formations in Clay	Pumping leves. PASSED THROUGOIL	el <u>75</u> ft.	THICK	Impino	DEPTH O BOTTOM 5' 45'
above gpm fo	ground level or 1 hour formations in Clay	Pumping leves. PASSED THROUGOIL	el <u>75</u> ft.	THICK	Impino	DEPTH O BOTTOM 5' 45'
above gpm fo	ground level or 1 hour formations in Clay	Pumping leves. PASSED THROUGOIL	el <u>75</u> ft.	THICK	Impino	DEPTH O BOTTOM 5' 45'

White C —
III. Dt. of Public Health
Yellow Copy — Well Contractor
Blue Copy — Well Owner

FILL IN ALL PERTINENT INFORMATION. REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, BUREAU OF ENVIRONMENTAL HEALTH, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62701. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

	Curb material b. Driven c. Drilled X	Drive I	Pipe Dic	ım5	_in. De	pth 42	_ft.
	Tubular						9
	d. Grout:	(KIND)		ROM (Ft.)	TO (Ft.)	
		Cement		-5'		42	
2.	Distance to Near			m.1	F: 13	751	in a
	Building 30					75'	
	Cess Pool		-	The state of the s		1	
	FILLY		DEW	er loust	11011/		_
				vard			
	Septic Tank5	0'	Barr	yard ure Pile			_
3.	Septic Tank5 Leaching Pit Is water from thi	o' s well to be	Barr Man	ure Pile or human			_
4.	Septic Tank5 Leaching Pit Is water from thi YesX Date well compl	s well to be	Barr Manused fo	ure Pile or human -76	consum	ption?	
4.	Septic Tank5 Leaching Pit Is water from thi YesX Date well compl Permanent Pump	s well to be No eted Installed?	Barr Manused for 2-10 Yes_	ure Pile or human -76 X	consum	ption?	
4.	Septic Tank5 Leaching Pit Is water from thi YesX Date well compl Permanent Pump Manufacturer	s well to be Noeted Installed? Barnes	Barr Manused for 2-10 Yes_	ure Pile or human -76 X _ Type_	consum No_Subme	ption?	
4. 5.	Septic Tank5 Leaching Pit Is water from thi YesX Date well compl Permanent Pump Manufacturer Capacity10	s well to be No eted Installed? Barnesgpm. I	Barr Manused for 2-10 Yes_	ure Pile or human -76 XType_setting.	NoSubme	ption?	
4. 5.	Septic Tank5 Leaching Pit Is water from thi YesX Date well compl Permanent Pump Manufacturer Capacity10 Well Tan Sealed	s well to be No eted Installed? Barnesgpm. I ? Yes X	Barr Mann used for 2-10 Yes_	ure Pile or human -76 X Type setting	No Subme	ption?	_ ft
4. 5.	Septic Tank5 Leaching Pit Is water from thi YesX Date well compl Permanent Pump Manufacturer Capacity10 Well Tan Sealed	s well to be No eted Installed? Barnesgpm. I ? Yes X	Barr Mann used for 2-10 Yes_	ure Pile or human -76 X Type setting	No Subme	ption?	_ ft
4. 5.	Septic Tank5 Leaching Pit Is water from thi YesX Date well compl Permanent Pump Manufacturer Capacity10	s well to be No eted Installed? Barnesgpm. I ? Yes X	Barr Mann used for 2-10 Yes_	ure Pile or human -76 X Type setting	No Subme	ption?	_ ft

GEOLOGICAL AND WATER SURVEYS WELL RECORD

U.	Propert	1 owner.	Karl Koifoid	ek	100		1
	Addres	SCh	arles Fykes		•	102-	73
	Driller		Sugar Crearles Fykes 44243 Limeston	Licens	1-14-7	6	
1.	Permit	No	Limeston	Date _	Wi	11	
2.	Water 1	rom	Formation	13. Cou	nty		
	at dept	h 25 t	o 205 ft.	Sec.	22,4	2	
4.	Screen	Diam.	in.	Twp	. 35N		
	Length	:f	t. Slot	Rge	. 10E	- -	
					v	_ -	
15.	Casing	and Lin	er Pipe			L	X
Die	m. (in.)	Ki	nd and Weight	From (Ft.)	To (Ft.)]	SHOW CATION IN
	5"	A-53	15 1bs.	0	42	SEC.	TION PLA
						SW	SW
	_					-	
			v casing: 5]	
	Static	level	40 ft. below cas	ing top which			
	Static above	level ground le	40 ft. below cas evel. Pumping lev	ing top which			
17.	Static above gpm fo	level ground le rl	40 ft. below cas evel. Pumping lev	ing top which vel <u>40</u> ft.	when p		g at <u>10</u>
	Static above gpm fo	level ground le rl	40 ft. below cas evel. Pumping level hours.	ing top which vel <u>40</u> ft.	THIC	umping KNESS	DEPTH O BOTTOM
17.	Static above gpm fo	level ground le rl	40 ft. below cas evel. Pumping level. Pumping level. No passed throughout Clay	ing top which vel <u>40</u> ft.	THICE	umpino KNESS	DEPTH O BOTTOM
17.	Static above gpm fo	level ground le rl	40 ft. below casevel. Pumping level. Pumping level. NS PASSED THROU Clay Gravel	ing top which vel <u>40</u> ft.	THICE	KNESS	DEPTH O BOTTOM 10' 18'
17.	Static above gpm fo	level ground le rl	40 ft. below cas evel. Pumping level. Pumping level. No passed throughout Clay	ing top which vel <u>40</u> ft.	THICE	umpino KNESS	DEPTH O BOTTOM
7.	Static above gpm fo	level ground le rl	40 ft. below casevel. Pumping level. Pumping level. NS PASSED THROU Clay Gravel	ing top which wel 40 ft.	THICE	umpino KNESS	DEPTH O BOTTOM 10' 18'
17.	Static above gpm fo	level ground le rl	40 ft. below casevel. Pumping level. Pumping level. Pumping level. NS PASSED THROUTE Clay Gravel Shale	ing top which wel 40 ft.	THICK	umpino KNESS	DEPTH O BOTTOM 10' 18'
7.	Static above gpm fo	level ground le rl	40 ft. below casevel. Pumping level. Pumping level. Pumping level. NS PASSED THROUTE Clay Gravel Shale	ing top which wel 40 ft.	THICK	umpino KNESS	DEPTH O BOTTOM 10' 18'
7.	Static above gpm fo	level ground le rl	40 ft. below casevel. Pumping level. Pumping level. Pumping level. NS PASSED THROUTE Clay Gravel Shale	ing top which wel 40 ft.	THICK	umpino KNESS	DEPTH O BOTTOM 10' 18'
7.	Static above gpm fo	level ground le rl	40 ft. below casevel. Pumping level. Pumping level. Pumping level. NS PASSED THROUTE Clay Gravel Shale	ing top which wel 40 ft.	THICK	umpino KNESS	DEPTH O BOTTOM 10' 18'
7.	Static above gpm fo	level ground le rl	40 ft. below casevel. Pumping level. Pumping level. Pumping level. NS PASSED THROUTE Clay Gravel Shale	ing top which wel 40 ft.	THICK	umpino KNESS	DEPTH O BOTTOM 10' 18'
17.	Static above gpm fo	level ground le rl	40 ft. below casevel. Pumping level. Pumping level. Pumping level. NS PASSED THROUTE Clay Gravel Shale	ing top which wel 40 ft.	THICK	umpino KNESS	DEPTH O BOTTOM 10' 18'
7.	Static above gpm fo	level ground le rl	40 ft. below casevel. Pumping level. Pumping level. Pumping level. NS PASSED THROUTE Clay Gravel Shale	ing top which wel 40 ft.	THICK	umpino KNESS	DEPTH O BOTTOM 10' 18'

IDPH 4.065 10-72

KNB-1

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Yellow Copy — Well Contractor
Blue Copy — Well Owner

FILL IN ALL PERTINENT INFORMATION REQUEST. AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1.	Type of Well a. Dug Bored Hole Diam. 5_ in. Depth 100 ft. Curb material Buried Slab: YesNo
	b. Driven Drive Pipe Dian5_in. Depth _62_ft.
	c. Drilled X . Finished in Drift In Rock X.
	Tubular Gravel Packed
	d Crout:
	(KIND) FROM (Ft.) TO (Ft.)
2	Distance to Nearest:
۷.	Building 30 Ft. Seepage Tile Field 75'
	Cess Pool Sewer (non Cast iron)
	Privy Sewer (Cast iron)
	Septic Tank 50' Barnyard
	Leaching Pit Manure Pile
3.	
4.	2 20 06
5.	
٠.	Manufacturer Webtrol Type Subm. Location Well
	Capacity 12 gpm. Depth of Setting 60 Ft.
6.	Well Top Sealed? Yes X No Type Vermin-Proof (Wms
7.	Pitless Adapter Installed? Yes X No
	Manufacturer Williams Model Number 501TC
	How attached to casing? Compression Gasket Connection
8.	Well Disinfected? Yes X No
	Pump and Equipment Disinfected? Yes X No
10.	Pressure Tank Size 82 gal. Type #203 Well-X-Trol
	Location basement
11.	Water Sample Submitted? YesNoX
	MIDUC
	MARKS: Caurly #27295

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Drille	Charles Fykes	Licen	se No.	102 - 2	23
1. Permi	No. Timogtone	Date _	2-19-0	Dia Dac	10
2. Water	No. 122355 from Limestone	13. Cou	inty	Jurac	- /
	th _ 62 to _ 100 ft.	Sec	. 22.40		
	: Diamin.	Tw			
Lengt	n:ft. Slot	Rge	. 10E	- -	
		Ele	v	- -	
5. Casin	g and Liner Pipe			X	IKI
Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)	Lo	SHOW CATION IN
5"	A-53 15 lbs.	0	62	SEC	TION PLAT
3.5				Gree	35 telo
7. Static above	Tole below casing: 5 level 45 ft. below cas ground level. Pumping leads 1 hours.	sing top whi	ch is when pu	Sw +1	SWSE II
7. Static above gpm fo	level 45 ft. below car ground level. Pumping le	sing top whi evel <u>50</u> ft	. when pu	Sw +1	Sw SE
7. Static above gpm fo	level 45 ft. below car ground level. Pumping le r 1 hours.	sing top whi evel <u>50</u> ft	THICK	+1 imping	SWSE II
7. Static above gpm fo	level 45 ft. below conground level. Pumping level. Pumping level. L hours.	sing top whi evel <u>50</u> ft	THICK	+1 umping	t 12
7. Static above gpm fo	level 45 ft. below car ground level. Pumping lear 1 hours. FORMATIONS PASSED THRO	sing top whi evel <u>50</u> ft	THICK	+1 umping	ft 12 DEPTH OF BOTTOM 6'
7. Static above gpm fo	level 45 ft. below conground level. Pumping level 1 hours. FORMATIONS PASSED THRO Clay Clay & Rocks	sing top whi evel <u>50</u> ft	тнісь 6 11	+1 umping	ft g at 12 DEPTH OF BOTTOM 6' 17'
7. Static above gpm fo	level 45 ft. below conground level. Pumping level 1 hours. FORMATIONS PASSED THRO Clay Clay & Rocks Gravel	sing top whi evel 50 ft	тнісь 6 11	+1 umping	Sw SE ft 12
7. Static above gpm fo	level 45 ft. below car ground level. Pumping lever 1 hours. FORMATIONS PASSED THRO Clay Clay & Rocks Gravel Sand	sing top whi evel 50 ft	THICK 6 11 13 9	+1 umping	ft 12 DEPTHOF BOTTOM 6' 17' 30' 39'
7. Static above gpm fo	level 45 ft. below car ground level. Pumping le or 1 hours. FORMATIONS PASSED THRO Clay Clay & Rocks Gravel Sand Broken limesto	sing top whi evel 50 ft	THICK 6 11 13 9	+1 umping cness 5'	ft 12 perth of Bottom 6' 17' 30' 39' 44'

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Charles tipked DATE April 9, 198

Pink Copies: Whi apt. of Public Health 11.

· Copy: Well Contractor Gol. . Copy: Well Owner

Well Construction Report

MERRICOSE

THIS FORM MUST BE COMPLETED WITHIN 30 DAYS OF WELL COMPLETION AND SENT TO	GEOLOGICAL AND WATER SURVEYS WE	LL RECORD
THE ILLINOIS DEPARTMENT OF PUBLIC HEALTH	9. Driller Charles Fykes Li	rense No. 102-000239
DIVISION OF ENVIRONMENTAL HEALTH JAN 2 0 198	10. Well Site Address 619 Manhattan Road	
525 WEST JEFFERSON STREET	11. Property Owner Art Thompson	
CONTRICTED THE THOTE 62761	12 Parmit No. 006832	te Issued 10-14-88
DIVISION OF	13 Location: Co	unty Will
ENVIRONMENTAL HI		c. 22.33
1. Type of Well		0 35N
a. Bored Hole Diam. 5 in. Depth 105 ft		e. 10E X
Buried Slab: Yes No		
b. Driven Drive Pipe Diam. 5 in. Depth 42 ft	14. Water from Limestone at depth 4	0 ft
c. Drilled X Finished in Drift In Rock X		05 ft Show location
(KIND) FROM (Ft.) TO (Ft.)	Diam.(in) Kind and Weight From (ft)	
d. Grout:		plat
		SE NW SE
	5 A-53 15 1bs. 0	42
2. Well furnishes water for human consumption? Yes X No		
3. Date well drilled 8-12-88		
4. Permanent pump installed? Yes X Date 12-21-88 No		
Manufacturer Webtrol Type Subm.		
LocationWell	16. Screen: Diamin, Lengthin, Slot S	
Capacity 10 gpm. Depth of setting 80 ft.	17. Size hole below casing 5 in. 18. Groun	
5. Well top sealed? Yes X No Type Vermin-Proof (Wms.)	19. Static level 35 ft below casing top which	
6. Pitless adapter installed? Yes X No	ground level. Pumping level 60 ft, pumpi	
Manufacturer Williams Model No. 501TC	20. Earth Materials Passed Through	Depth of Depth of
How attached to casing? Compression Gasket Connection		Top Bottom
7. Well disinfected? Yes X No	Clay	0 35
8. Pump and equipment disinfected Yes_X No	Clay	0 33
	Gravel	35 40
IMPORTANT NOTICE This State Agency is requesting disclosure of information \$\frac{1}{3}0^{\text{NOTICE}}\$	Glaver	33 40
IMPORTANT NOTICE	Limestone	40 105
This State Agency is requesting disclosure of information \$\frac{1}{2}\text{O}\$	Linescone	40 105
that is necessary to accomplish the statutory purpose as		
outlined under Public Act 83-0003. Disclosione of this		
information is mandatory. This form has been approved by		
the Forms Management Center.		

Continue on separate sheet if necessary.

Signed Charles Fyles

PRESS FIRMLY WITH BLACK PEN OR TYPE

Do Not Use Felt Pen

White Copy — III. Dept. of Lolic Health Yellow Copy — Well Contractor Blue Copy — Well Owner

FILL IN ALL PERTINENT INFORMATION REQUEL ED AND MAIL ORIGINAL TO STATE DE-PARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

GEOLOGICAL AND WATER SURVEYS WELL RECORD

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

WELL CONSTRUCTION REPORT 1. Type of Well a. Dug Bored Hole Diam. 5 in. Depth 235 ft. Curb material Buried Slab: Yes No b. Driven Drive Pipe Diam. 5 in. Depth 42ft. c. Drilled Finished in Drift In Rock Tubular Gravel Packed d. Grout: (KIND) FROM (Ft.) To (Ft.)	10. Property owner Cleanton - Well No. Co. Address Driller License No. 10. 11. Permit No. 24879 Date 8-15- 12. Water from Line Formation at depth to to 23tt. 14. Screen: Diam. in. Twp. 25N Length: ft. Slot Rge. 10E Elev. Elev.	72
	Diam (in) Wind and Weight Fram (Ft.) To (Ft.)	SHOW
2. Distance to Nearest: Building 25 Ft. Seepage Tile Field 7.5	5 Bluk 15# 0 4/2 SI	ection plat
Cess Pool Sewer (non Cast iron) Privy Sewer (Cast iron) Bearnyard Leaching Pit Manure Pile 3. Is water from this well to be used for human consumption? Yes No 4. Date well completed 4-74	16. Size Hole below casing:in. Lee 17. Static levelft. below casing top which is above ground level. Pumping level ft. when pump. gpm for hours.	
5. Permanent Pump Installed? Yes No Manufacturer Wilter Type Much Type ft. Capacity C gpm. Depth of setting 12 ft.	Clay & Gravel 0	42
6. Well Top Sealed? Yes No	Limestani. 4:	2 335
9. Water Sample Submitted? YesNo		
REMARKS:		
IDPH 4.065 10/68	(CONTINUE ON SEPARATE SHEET IF NECESSARY) SIGNED DATE 3-2	7-74

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FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, BUREAU OF ENVIRONMENTAL HEALTH, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62701. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1.	Type of Well a. Dug Bored Hole Diam. 5 in. Depth 245ft. Curb material Buried Slab: YesNo b. Driven Drive Pipe Diam. 5 in. Depth 43 ft. c. Drilled Finished in Drift In Rock Tubular Gravel Packed d. Grout: (KIND) FROM (Ft.) TO (Ft.) Camented -51 42'	10. Property owner Admaded Address Driller Charles B. 11. Permit No. 5797/ 12. Water from Formation at depth 15 to 245 ft. 14. Screen: Diamin. Length:ft. Slot
		Diam. (in.) Kind and Weight
2.	Distance to Nearest: Building 30 Ft. Ft. Seepage Tile Field 75' Cess Pool Sewer (non Cast iron) Sewer (Cast iron) Betic Tank 50' Barnyard	16. Size Hole below casing:
	Leaching Pit Manure Pile	above ground level. Pumping
	Is water from this well to be used for human consumption?	gpm for hours.
-	Yes No 3-28-77	18. FORMATIONS PASSED TI
4.	Permanent Pump Installed? Yes X No No No	0.0-
	Manufacturer Oames Type Submustbe Capacity 12 gpm. Depth of setting 140 ft.	Limestone
6.	Well Top Sealed? Yes No	
	Pitless Adaptor Installed? Yes No	
	Well Disinfected? Yes No	
9.	. Water Sample Submitted? YesNo	
RE	CMARKS:	
		(CONTINUE ON SEPARATE SHEE

			AND WATER				אט
10.	Proper	ty owner	arnold	Kump.	_ Well No		
	Addres	s Char	les Fyl	20 Licen	se No 2	3	
11.	Permit	No 5	79710	Date _	3-2/-	77	7
	Water I	from	ormation		inty W		
	at dent	th 15 to		Sec	. 14.	00	ПТ
14.		: Diam.			p. 35 /		
		:ft.			. 10 E		
				Ele	v	-	1
15.	Casing	and Liner	Pipe			L	LIX
Die	m. (in.)	Kind	and Weight	From (Ft.)	To (Ft.)	Loc	SHOW CATION IN
	5	A-53	15 lbs.	0	42		TION PLA
						- 2	
16.	Size H	ole below o	asing: 5	in.	14.4 (1.5)	٠	
17.	Static	level 100	ft. below cas	sing top whi	ch is	+1	f
	above	ground leve	l. Pumping le	vel 100 ft	, when pu	mpino	not /2
		r_/_ hou					
18.	F	FORMATIONS	PASSED THROU	JGH	THICK	NESS	DEPTH OF BOTTOM
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	L:	tool	2			13/	145
	am	escara			-	, ,0	0.75
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		La Serie					
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	CHIINU	E ON SEPAI	WIE SHEET I	MECESSAR	1)		
		1 1	1	1)			
IG	NED	Cha	lea Try	kas D	ATE //-	-29	7-79

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ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

b. c.	Curb material Driven Drilled Tubular	Brive Pip Finished	uried Slab: Yes e Diam. 💆 i	n. Depth YO ft. . In Rock A.
d.	. Grout:	(KIND)	FROM (Ft.)	TO (Ft.)
B C P S	Distance to Near Building	0_Ft.	Sewer (non Cas Sewer (Cast ire Barnyard	Field 75'
3. I	s water from this YesN Date well comple	s well to be us	sed for human co	
5. F N C 6. W 7. F	Permanent Pump Manufacturer	Installed? Or popm. Dep Yes Installed?	Yes Type oth of setting No Yes	No
9. Y				No_X

	GEO:	LOGICAL AN	ND WATER	SURVEYS	WELL R	ECO	RD
		0	2	Matthew	(as)		
10.			words	ketthou	Well No	4	
	Addres		south	Settai	um D	t	*
		Lacepart	Will to	Le misicens	se No.	600)
	Permit		130	Date _	3 30	1 8	5
12.	Water i	Form	ation	13. Cou			
		th 40 to 18		Sec	200		
14.		: Diam			551		
	Length	:ft. SI	ot		. LOE		
15	Ci	I : D:		Ele	v	-	
-	-	and Liner Pi				_	SUOP
Dis	m. (in.)	Kind an	d Weight	From (Ft.)	To (Ft.)		SHOW CATION 1:3
-	2	4-53	15/18	0'	40		TION PLAT
						Du	NW SE
16.	Size H	ole below cas	ing: 5	in.		. ,	
17.	Static	level 40	t. below casi	ing top whi	ch is_Z	_/_	ft.
	above	ground level.	Pumping lev	rel <u>140</u> ft	when pu	mping	g at 10_
	gpm fo	r hours					
18.	. 1	FORMATIONS PA	ASSED THROU	GH	тніск	NESS	DEPTH OF BOTTOM
	1.		0;		1	i	11
7	Lag	2 000	K		-		
_	ZI	and.			14	//	5
	40	raston	0)		130	31	251
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Blue Copy — Well Owner

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ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well			
a. Dua .	Bored I	Hole Diam5_in	n. Depth 220 ft.
Curb materi	al .	Buried Slab: Yes_	No
		ipe Diam5in	
		d in Drift	
		Packed	
d. Grout:	-		·
	(KIND)	FROM (Ft.)	TO (Ft.)
	Cement	1, 1	401
2. Distance to Ne			
Euilding		Saangge Tile Fi	eld 751
Cess Pool			iron)
			n)
Privy Septic Tank		Sec 20 Security 14 Commission 14	*/
		used for human con	
Yesx		used for numeri con	is uniption:
		71	
		<u>-71</u>	
5 Permanent Pun	np installed?	Yesx	No
Manufacturer	Reda	Type Su	omersible "
		XNo	
7. Pitless Adapto	or Installed?	Yesx_	Vo
8. Well Disinfects	ed? Yes	No	
Q Water Sample S	Submitted?	/es	No v
. Water Sample .	dibilitied:	65	
DEMARKS.	1		
REMARKS:			

10.	Promerty owner Ethel Scott	Well No.	_	1
	Amress 405 Champlain StJolie	et, Il	1.	
	Driller Lockport Well&Pump Licens			
11.	Par nit No1.1929 Date	3-17-	71	
12.	Wuter from Limestone 13. Com			
		21,5		
14.		. 32N		
		10E		
16		/		X,
	Cosing and Liner Pipe			SHOW
Dia	m. (ln.) Kind and Weight From (Ft)		LO	CATION IN
-	5" A-53 15lbs. 0'	40:		E SE
_			U,	
				Sai
	Size Hole below casing:in.			
17.	Static levelft. below casing top which	ch is	0	ft.
	gpm for 1 hours.	when pu	mping	at 10_
	gpin for nours.			
18.	FORMATIONS PASSED THROUGH	THICK	NESS	DEPTH OF BOTTOM
To	op Soil	11		11
C	ay	31		1, 1
Li	me	17	61	1801
	aley Lime	15	1 .	1951
Li	me	20	t	2151
Sh	nale	51		2201
P-ST-PERSON			-	THE RESERVE OF THE PERSON OF T

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

GEOLOGICAL AND WATER SURVEYS WELL RECORD

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